



**County of San Diego
Health and Human Services Agency
Emergency Medical Services**

**San Diego County
Trauma System Report**

**July 1, 2001
through
June 30, 2002**

November 2004

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Board of Supervisors**

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Acknowledgements

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The San Diego County Trauma System emerged as a result of dedicated physicians, nurses, and system specialists within the county working to develop an environment for the careful evolution of a regional trauma system. The input from these groups generated the discussion and in-depth analysis of relevant public health policy options.

A needs assessment study to determine if San Diego County would benefit from a regionalized trauma system was undertaken by the Hospital Council (now the Healthcare Association) of San Diego and Imperial Counties during 1982. The study represents the first comprehensive concurrent and retrospective audit of trauma care in the nation (“Trauma Needs Assessment Study” by Amherst and Associates). The findings and recommendations, released in November of 1982, led to the development of a joint Hospital Council and Medical Society plan for care of major trauma victims in San Diego County.

In October 1983, with support and direction from the San Diego County Board of Supervisors, the Department of Health Services created an Ad Hoc Trauma Advisory Task Force to assist in the review and evaluation of the Hospital Council – Medical Society Trauma Plan. The advisory group of outside trauma experts conducted public hearings and informal sessions with in-hospital and pre-hospital trauma providers, and synthesized the experiences of other trauma systems into a single set of recommendations for the Department and the Board of Supervisors to consider. The recommendations urged the county to adopt trauma standards that closely approximated the American College of Surgeons guidelines. The community consensus that emerged from their effort resulted in the formal adoption of their recommendations by the County Board of Supervisors in November 1983.

Once the trauma standards were adopted, the Department implemented a competitive selection process, seeking to designate five adult trauma centers and one pediatric trauma center. Designation criteria were incorporated in a Request for Proposal and the Ad Hoc Trauma Advisory Task Force became the Proposal Review Committee to evaluate and recommend hospitals for designation. Six facilities were awarded provisional designation status based on the quality of trauma services provided.

On August 1, 1984, after sixteen months of direct preparation, major trauma victims in San Diego County began bypassing community hospitals in favor of designated trauma centers.

In October of 1987, the County Board of Supervisors established a Board Subcommittee on the San Diego County Trauma System to evaluate the current trauma center contractual agreements for the San Diego County Trauma System and make appropriate recommendations for policy change as necessary.

In February 1992, the Board’s subcommittee was reconvened, and renamed the Trauma Advisory Task Force. This task force developed recommendations specific to the clinical, financial, and legal issues confronting the trauma system at the time.

In February 2002, at the request of Supervisor Roberts, the Board of Supervisors directed the Chief Administrative Officer to conduct a voluntary assessment of the Trauma System, and to provide recommendations for enhancing trauma services provided in San Diego County. The report, released in February 2003, gave detailed recommendations on system configuration, clinical care, and fiscal issues.

Preface

Since its inception, the San Diego County Trauma System has responded to nearly 150,000 patients in need of trauma care, and saved untold numbers of lives.

The six trauma centers currently designated are:

- Children's Hospital and Health Center
- Scripps Mercy Hospital
- Palomar Medical Center
- Scripps Memorial Hospital – La Jolla
- Sharp Memorial Hospital
- U.C.S.D. Medical Center

Introduction

Currently, there are five adult trauma centers serving San Diego County: Palomar Medical Center, Scripps Memorial Hospital - La Jolla, Scripps Mercy Hospital, Sharp Memorial Hospital, and UCSD Medical Center. Children's Hospital and Health Center serves as the pediatric trauma center. Since August 1984, more than 120,000 trauma patients have been admitted to San Diego County's designated trauma centers.

Traumatic injury, considered a preventable disease, represents a serious public health challenge for San Diego County. During FY 2001/02, 9,545 patients were admitted to designated trauma centers (an average of 795 patient admissions per month). The number of trauma patients increased from the previous fiscal year by two percent.

Table 1.1: Trauma Center Admissions by Fiscal Year

Fiscal Year	Trauma Center Admissions			
	Number	Monthly Average	% Change from Previous Year	Rate per 100,000 Population
1985/86	4,374	365	---	203.55
1986/87	5,466	456	25%	245.81
1987/88	6,148	512	12%	267.22
1988/89	6,379	532	4%	267.05
1989/90	6,650	554	4%	268.14
1990/91	7,036	586	6%	277.05
1991/92	7,111	593	1%	275.25
1992/93	6,460	538	-9%	247.11
1993/94	6,399	533	-1%	242.52
1994/95	6,474	540	1%	243.51
1995/96	7,516	626	16%	279.38
1996/97	7,257	605	-3%	266.37
1997/98	7,653	638	5%	273.83
1998/99	8,435	703	10%	295.62
1999/00	8,984	749	7%	308.57
2000/01	9,351	779	4%	314.44
2001/02	9,545	795	2%	328.18

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Center Monthly Reports; Population Estimates, SANDAG.

Traumatic injuries are classified as either penetrating or blunt. The number of patients admitted to county trauma facilities with penetrating injuries (mostly due to firearms and cutting/piercing injuries) increased steadily from fiscal year 1985/86 to 1992/93. Since then, the number of penetrating injuries decreased 57% to a 17-year low of 597 in FY 2001/02. The number of blunt injuries, primarily resulting from motor vehicle related injuries and falls, has continued to increase by an average of about 8% per year. Blunt injuries experienced a corresponding increase in the proportion of all traumatic injuries, from 84% during FY 1985/86 to 93% in FY 2001/02.

Table 1.2: Trauma Center Admissions by Injury Type

Fiscal Year	Penetrating				Blunt			
	#	%	% Change from Previous Year	Rate per 100,000 Population	#	%	% Change from Previous Year	Rate per 100,000 Population
1985/86	721	16%	---	33.55	3,653	84%	---	169.99
1986/87	841	15%	17%	37.82	4,625	85%	27%	207.99
1987/88	845	14%	<1%	36.73	5,303	86%	15%	230.49
1988/89	967	15%	14%	40.48	5,412	85%	2%	226.57
1989/90	1078	16%	11%	43.47	5,572	84%	3%	224.67
1990/91	1301	18%	21%	51.23	5,735	82%	3%	225.82
1991/92	1362	19%	5%	52.72	5,749	81%	<1%	222.53
1992/93	1375	21%	1%	52.60	5,085	79%	-12%	194.51
1993/94	1192	19%	-13%	45.18	5,207	81%	2%	197.35
1994/95	1043	16%	-13%	39.23	5,431	84%	4%	204.28
1995/96	1083	14%	4%	40.26	6,428	86%	18%	238.94
1996/97	883	12%	-18%	32.41	6,226	88%	-3%	228.52
1997/98	759	10%	-14%	27.16	6,890	90%	10%	246.53
1998/99	726	9%	-4%	25.53	7,709	91%	12%	270.18
1999/00	660	7%	-9%	22.70	8,317	93%	8%	285.66
2000/01	679	7%	3%	22.83	8,668	93%	4%	291.47
2001/02*	597	7%	-12%	20.53	8,453	93%	-2%	290.63

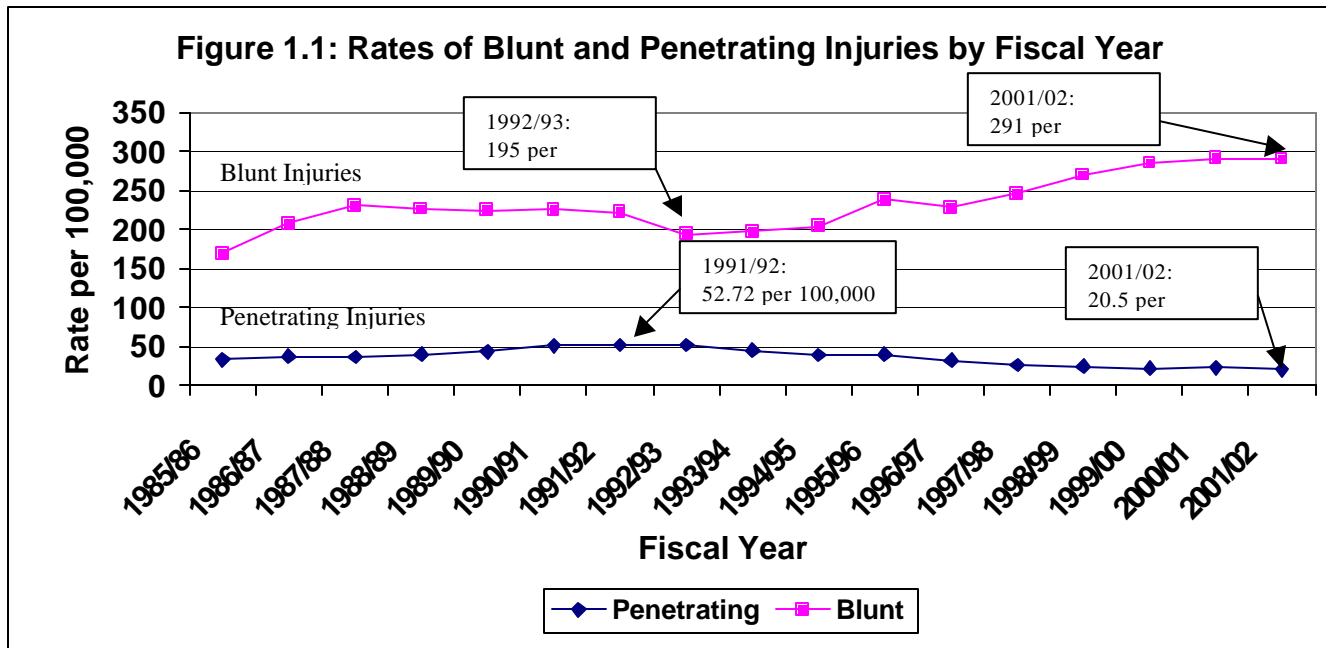
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Center Monthly Reports; Population Estimates, SANDAG.

*Injury type not reported for 495 patients.

A rate is calculated as incidence per 100,000 population. Rates were calculated using January 2001 population estimates calculated from estimates and forecasts from the San Diego Association of Governments (SANDAG) that do not use the data from the 2000 census. Rates were not calculated for categories with less than five occurrences.

$$\text{Rate} = \frac{\text{Incidence} \times 100,000}{\text{Population}}$$

Figure 1.1 shows the trends for blunt and penetrating trauma activations from FY 1985/86 through FY 2001/02. Since FY 1992/93, the rates of blunt and penetrating injuries seen at trauma facilities have diverged. The rate of blunt injuries increased by nearly 50%, while the penetrating injury rate during the same time period decreased by 61%. These patterns reflect an increase in rates of injuries from falls at the same time that assault related injuries dropped substantially.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Center Monthly Reports.

Trauma Registry Data

The American College of Surgeons Committee on Trauma initiated a study which pooled data from more than 100 trauma centers nationwide. To be included, trauma patients had to meet Major Trauma Outcome Study (MTOS) criteria which reflect either the severity of the patient's injuries or the resources required to care for the patient.

Members of the San Diego County trauma system modified these criteria for the San Diego County Trauma Registry. To be entered into the registry, a trauma patient must meet one of the following: admission to the hospital for at least three days, admission to an intensive or intermediate care unit, interfacility transfer to or from an acute care hospital, **or** death from traumatic injuries. In January 2000, these criteria were revised to include trauma patients who had been admitted for at least 24 hours, although admission to an ICU was no longer a criterion for inclusion.

Since 1986, each of the designated trauma centers has submitted data on each trauma patient admission who met the modified MTOS criteria to the Division of EMS. These summaries contained more than 100 variables, including demographic, cause of injury, diagnostic, treatment and patient outcome data.

Of the 9,545 patients who were admitted to a trauma center during FY 2001/02, 5,307 (56%) met expanded trauma registry criteria for inclusion into the San Diego County Trauma Registry. While total trauma admissions increased by 2% during the last fiscal year, the number of modified MTOS patients increased 3%.

Table 1.3: Total MTOS Patient and Trauma Center Admissions

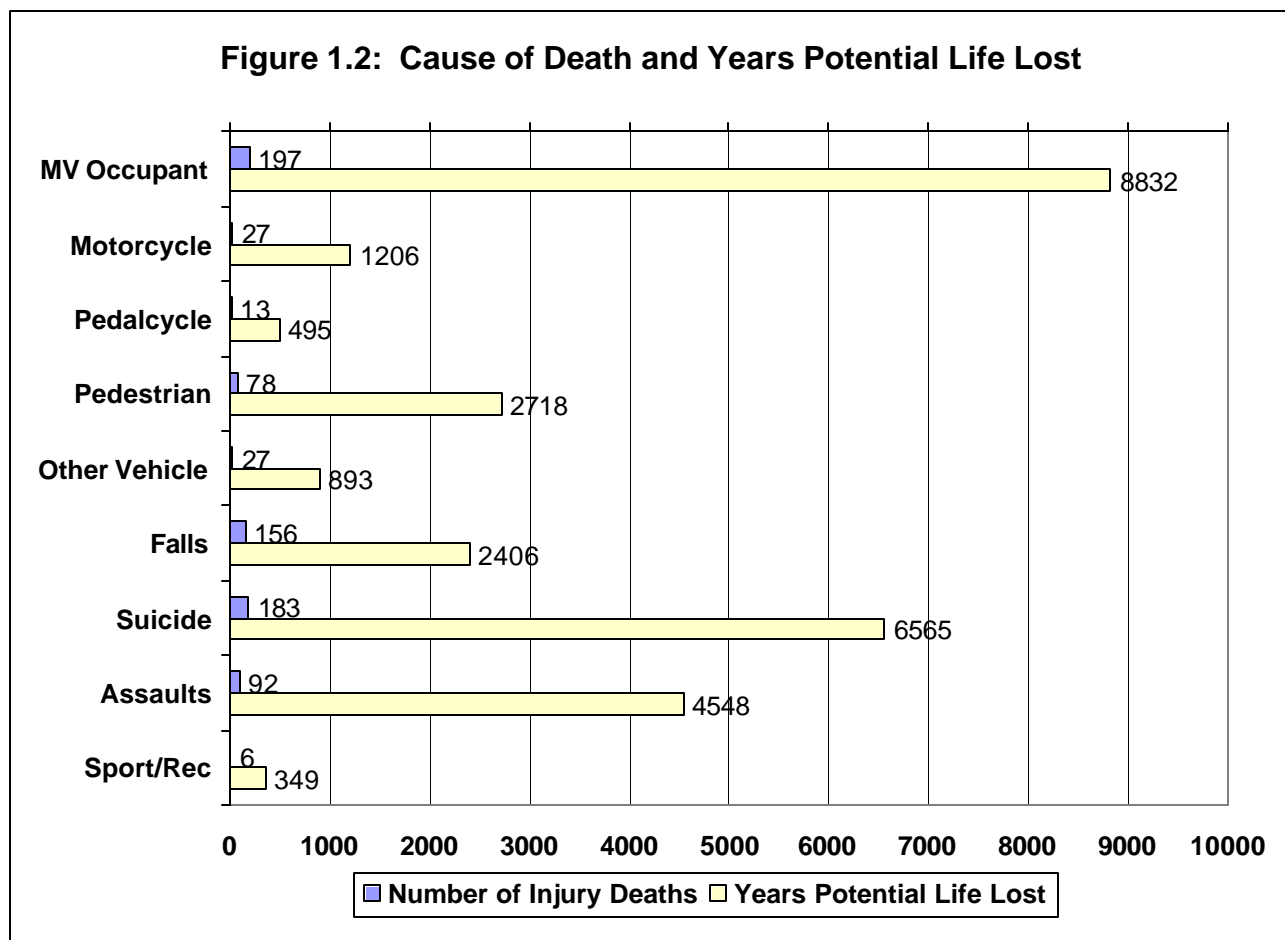
	Total Trauma Admissions	Percentage Change	Modified MTOS Patients	Percentage Change	MTOS Percent of Total
1991/92	7,111	---	4,645	---	65%
1992/93	6,460	-9%	4,492	-3%	70%
1993/94	6,399	-1%	4,235	-6%	66%
1994/95	6,474	1%	4,085	-4%	63%
1995/96	7,516	16%	4,250	4%	57%
1996/97	7,257	-3%	5,007	18%	69%
1997/98	7,653	5%	4,951	-1%	65%
1998/99	8,435	10%	4,995	1%	59%
1999/00	8,984	7%	5,093	2%	57%
2000/01	9,351	4%	5,169	1%	55%
2001/02	9,545	2%	5,307	3%	56%
Total	85,185	---	52,229	---	61%

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Trauma Center Monthly Reports.

Years of Potential Life Lost (YPLL) calculates the years of life lost due to a death using the average life expectancy as an estimate for the total length of life. Life expectancy was derived from the Vital Statistics Life Tables (Centers for Disease Control and Prevention). For age groups, YPLL was calculated using the life expectancy for the median age for the group.

$$\text{YPLL} = (\text{Expected years of life} - \text{median age}) \times \text{Number of deaths}$$

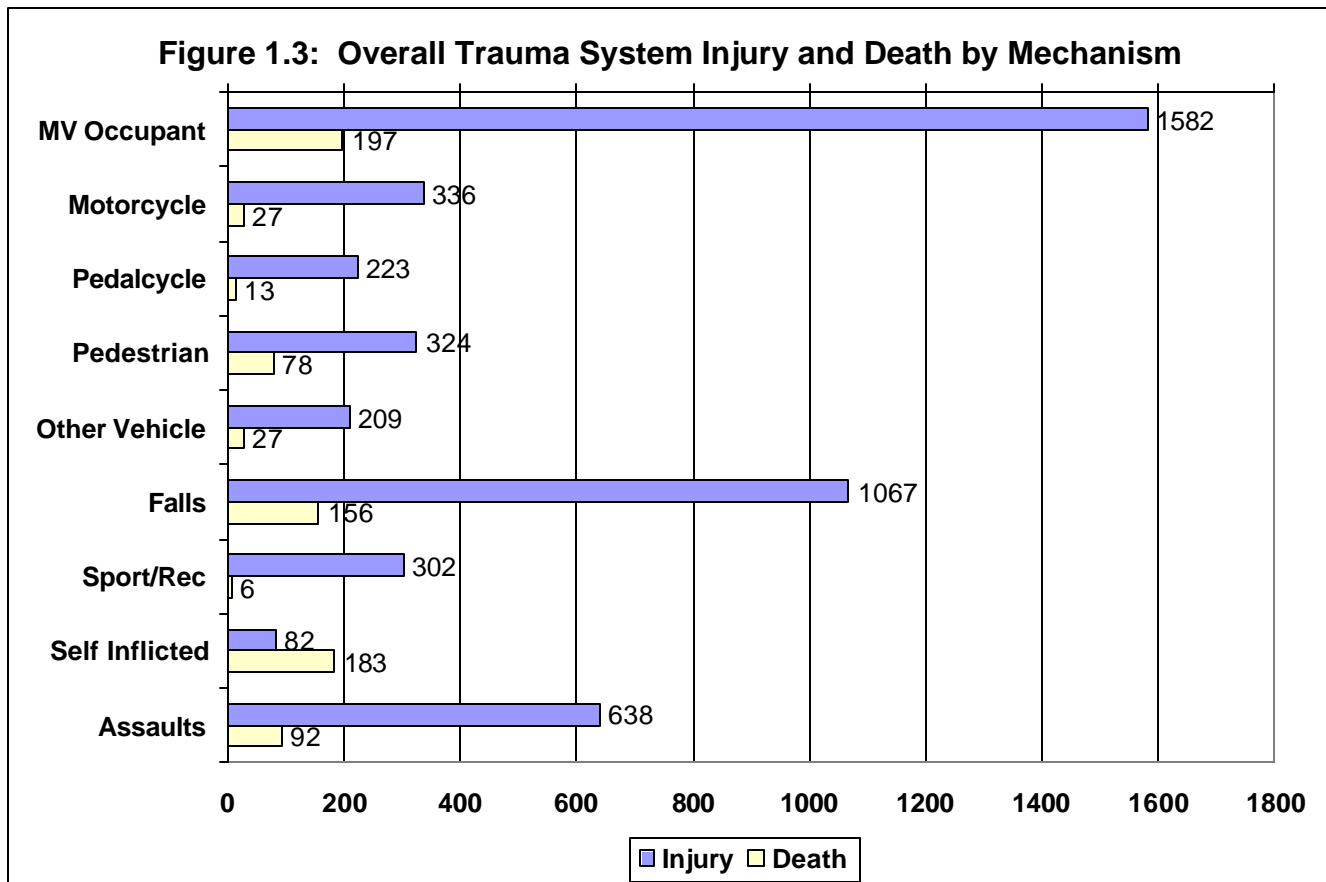
Among traumatic deaths, motor vehicle occupant crashes were the leading cause of death (197) and years potential life lost (8,832). Suicide was the second highest cause of trauma related mortality (183), and accounted for the second highest number of YPLL (6,565). While falls contributed the third highest number of deaths, they accounted for fewer lost years of life than assaults or pedestrian injuries because those who die from falls are on average much older than are people who die from assault or pedestrian injuries.



Source: County of San Diego Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02
 Life table data obtained from Arias E. United States Life Tables, 2001. National Vital Statistics Reports; Vol. 52, No. 14. Hyattsville, Maryland: National Center for Health Statistics.

Current Overview of Traumatic Injury in San Diego County

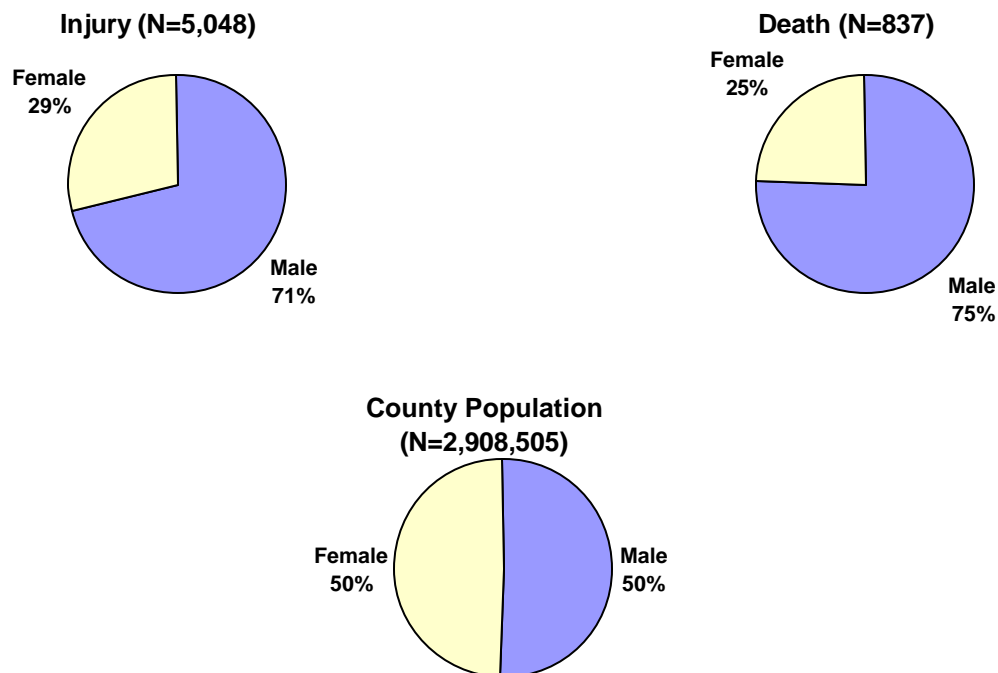
During FY 2001/02, 840 lives were lost due to traumatic injury. On the average, for every person who died as the result of a traumatic injury, six more were seriously injured. Figure 1.3 breaks out deaths and injuries by mechanism. The three leading causes of traumatic injury were motor vehicle occupant crashes, falls and assaults. The leading causes of traumatic death were motor vehicle occupant crashes, suicides, and falls.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02

Although males make up half the county's population, they accounted for 71% of all serious injuries and 75% of all trauma patient deaths.

Figure 1.4: Comparison of County Population to Injuries and Deaths by Gender



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02. Population estimates, SANDAG.

Patterns of injury were clearly evident by gender. Males accounted for 71% of nonfatal injuries, and were especially highly represented in assaults (89%), motorcycle crashes (89%), and pedalcycle crashes (85%). Motor vehicle occupant crashes and falls were the leading causes of injury for both males and females, while assaults made up 16% of injuries to males compared with less than 5% of injuries to females.

Table 1.4: Trauma System Injury by Mechanism and Gender

	Male	Female	Total
Vehicle Related	1,787	887	2,674
<i>MV Occupant</i>	924	658	1,582
<i>Motorcycle</i>	300	36	336
<i>Pedalcycle</i>	189	34	223
<i>Pedestrian</i>	214	110	324
<i>Other Vehicle</i>	160	49	209
Falls	721	346	1,067
Sports/Recreation	225	77	302
Overall Violence	622	97	720
<i>Self Inflicted</i>	57	25	82
<i>Assault</i>	565	72	638
Other	214	47	261
Unknown	20	3	23
Total	3,589	1,458	5,048

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02.

Note: Gender was not documented in one assault.

Males made up the majority of traumatic deaths regardless of cause of injury. Traumatic deaths to women were most likely to result from falls (64), while motor vehicle occupant crashes accounted for the largest number of traumatic deaths to men (153), followed by suicide (151).

Table 1.5: Trauma System Deaths by Mechanism and Gender

	Male	Female	Total
Vehicle Related	260	82	342
<i>MV Occupant</i>	153	44	197
<i>Motorcycle</i>	26	1	27
<i>Pedalcycle</i>	12	1	13
<i>Pedestrian</i>	52	26	78
<i>Other Vehicle</i>	17	10	27
Falls	92	64	156
Sports/Recreation	5	1	6
Overall Violence	217	57	274
<i>Suicide</i>	151	32	183
<i>Homicide</i>	66	25	91
Other	52	3	55
Unknown	3	1	4
Total	629	208	837

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02.

Table 1.6 includes both the mean and median ages¹ by mechanism of injury for both injuries and deaths. As this table shows, different mechanisms are likely to have distinct age distributions. Sports and recreation injuries had the youngest age distribution (median=19, mean=23 years), while falls had the oldest patients overall. Half of all fall deaths were to victims over the age of 80. For most mechanisms, the mean and median ages were higher among those who expired than those who survived.

Table 1.6: Mean and Median Age by Mechanism of Injury and Death

	Survived			Expired		
	Count	Median	Mean	Count	Median	Mean
Vehicle Related	2,674	31	35	341	38	41
<i>MV Occupant</i>	1,582	31	36	196	28	38
<i>Motorcycle</i>	336	35	36	27	35	37
<i>Pedalcycle</i>	223	27	31	13	45	44
<i>Pedestrian</i>	324	29	33	78	49	49
<i>Other Vehicle</i>	209	29	34	27	51	51
Falls	1,067	46	47	155	80	75
Sport/Rec	302	19	23	6	23	23
Overall Violence	719	28	30	271	39	43
<i>Self Inflicted/Suicide</i>	82	33	35	183	45	48
<i>Assault/Homicide</i>	637	27	30	88	33	35
Other	261	32	31	56	42	43
Unknown	23	21	30	4	49	41
Total	5,047	32	36	833	45	48

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02.
Note: Age was unknown for one injury and seven deaths.

¹ The mean is the average age. The median is the middle age when all of the ages are put into numerical order. In the event of an abnormally high or low age (an outlier), the median age is not as likely to be influenced as the mean age.

Traumatic injury disproportionately affects persons between the ages of 15 and 34 years. This age range accounted for 41% of all severe injuries, including 64% of assaults, 56% of self-inflicted injuries, 47% of motorcycle injuries, and 49% of motor vehicle occupant injuries. The ten-year age group with the highest incidence of severe injuries was the 15-24 year olds, accounting for 23% of the severe injuries.

Appendix A lists the leading causes of severe injury and death by age group and Appendix C lists county population by age group.

Table 1.7: Trauma System Injury by Mechanism and Age Group in Years

	0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85+	Unkn	Total
Vehicle Related	67	88	116	332	385	479	433	354	155	129	106	30	0	2,674
<i>MV Occupant</i>	32	32	34	229	257	286	236	200	90	87	73	26	0	1,582
<i>Motorcycle</i>	1	4	4	22	47	90	76	64	18	5	4	1	0	336
<i>Pedalcycle</i>	3	23	41	22	15	22	38	26	18	8	7	0	0	223
<i>Pedestrian</i>	26	24	28	31	31	45	45	37	22	20	12	3	0	324
<i>Other Vehicle</i>	5	5	9	28	35	36	38	27	7	9	10	0	0	209
Falls	100	45	38	39	51	104	135	135	75	90	163	92	0	1,067
Sports/Recreation	13	33	63	49	30	43	43	18	7	3	0	0	0	302
Overall Violence	22	1	13	100	153	203	123	67	20	12	3	2	1	720
<i>Self Inflicted</i>	0	0	2	8	14	24	13	11	5	2	1	2	0	82
<i>Assault</i>	22	1	11	92	139	179	110	56	15	10	2	0	1	638
Other	30	15	18	17	21	39	52	39	13	10	6	1	0	261
Unknown	1	1	3	4	4	0	3	5	1	1	0	0	0	23
Total	234	183	251	541	644	868	789	618	271	245	278	125	1	5,048

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02.

The ten-year age group with the highest number of traumatic deaths was 15-24, with 19%. This age group made up 40% of all motor vehicle occupant deaths, and 30% of deaths from motorcycle injuries.

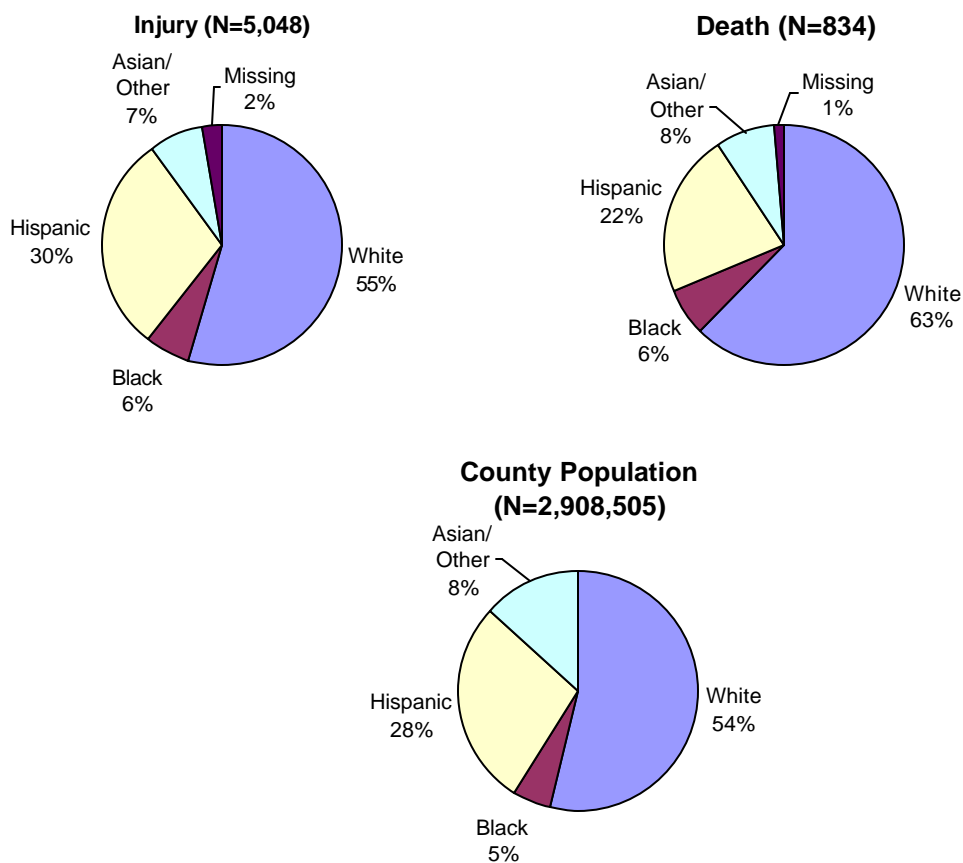
Table 1.8: Trauma System Death by Mechanism and Age Group in Years

	0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85+	Unkn	Total
Vehicle Related	4	5	3	40	56	48	44	48	37	19	26	11	1	342
<i>MV Occupant</i>	2	2	0	32	47	30	15	26	14	8	15	5	1	197
<i>Motorcycle</i>	0	0	0	2	6	4	5	6	4	0	0	0	0	27
<i>Pedalcycle</i>	0	1	0	0	1	0	5	3	2	0	1	0	0	13
<i>Pedestrian</i>	2	2	3	4	2	11	11	10	12	9	7	5	0	78
<i>Other Vehicle</i>	0	0	0	2	0	3	8	3	5	2	3	1	0	27
Falls	0	1	0	0	1	4	8	7	12	19	58	45	1	156
Sports/Recreation	0	0	1	1	2	2	0	0	0	0	0	0	0	6
Overall Violence	3	2	1	21	27	54	53	39	25	13	23	10	4	275
<i>Suicide</i>	0	0	1	9	15	34	31	32	23	10	19	9	0	183
<i>Homicidet</i>	3	2	0	12	12	20	22	7	2	3	4	1	4	92
Other	3	0	0	5	3	7	15	8	8	2	2	3	1	57
Unknown	0	0	1	0	0	0	0	3	0	0	0	0	0	4
Total	10	8	6	67	89	115	120	105	82	53	109	69	7	840

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02.

The relative distribution of traumatic injuries and deaths by race/ethnicity was comparable to the overall county population makeup. Hispanics made up a slightly higher proportion of nonfatal injuries, while Whites comprised a higher proportion of deaths than would be estimated from the population distribution.

Figure 1.5: Comparison of County Population to Injuries and Deaths By Race/Ethnicity



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02. Population estimates, SANDAG.

The White population made up 54% of the overall county population, but made up a larger proportion of injuries and deaths from motorcycle crashes (73% of injuries, 89% of deaths), falls (62% of injuries, 77% of deaths), and self inflicted injuries (64% of injuries, 81% of deaths). Blacks, with 5% of the total population, were more severely impacted by assaults (16% of injuries, 23% of deaths).

Table 1.9: Trauma System Injury by Mechanism and Race/Ethnicity

	White	Black	Hispanic	Asian/Other	Missing	Total
Vehicle Related	1,428	179	778	195	60	2,640
<i>MV Occupant</i>	779	68	523	166	46	1,582
<i>Motorcycle</i>	244	16	41	19	16	336
<i>Pedalcycle</i>	139	8	58	15	3	223
<i>Pedestrian</i>	133	29	124	34	4	324
<i>Other Vehicle</i>	133	11	53	8	4	209
Falls	657	47	268	70	25	1,067
Sports/Recreation	212	7	67	12	4	302
Overall Violence	297	111	255	44	13	720
<i>Self Inflicted</i>	53	7	21	1	0	82
<i>Assault</i>	244	104	234	43	13	638
Other	137	16	92	9	7	261
Unknown	13	2	5	1	2	23
Total	2,744	315	1,486	378	125	5,048

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02.

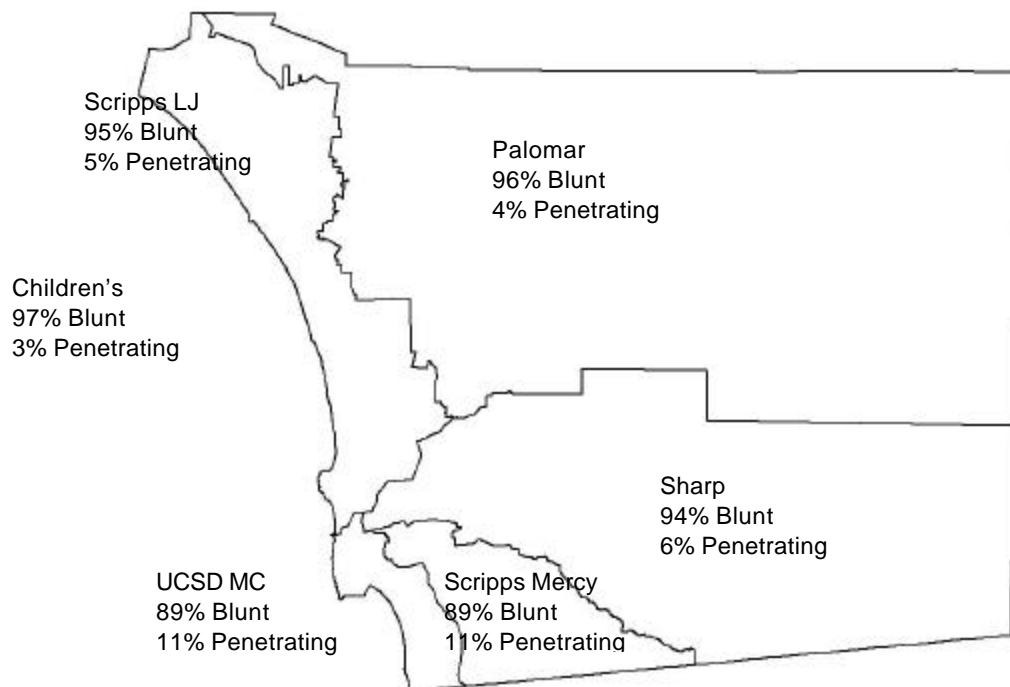
Table 1.10: Trauma System Death by Mechanism and Race/Ethnicity

	White	Black	Hispanic	Asian/Other	Missing	Total
Vehicle Related	185	19	103	29	6	342
<i>MV Occupant</i>	93	12	70	19	3	197
<i>Motorcycle</i>	24	0	2	1	0	27
<i>Pedalcycle</i>	9	1	3	0	0	13
<i>Pedestrian</i>	39	4	26	6	3	78
<i>Other Vehicle</i>	20	2	2	3	0	27
Falls	120	3	13	15	5	156
Sports/Recreation	5	0	1	0	0	6
Overall Violence	175	27	53	15	5	275
<i>Suicide</i>	148	6	18	8	3	183
<i>Homicide</i>	27	21	35	7	2	92
Other	33	4	14	4	2	57
Unknown	2	0	1	1	0	4
Total	520	53	185	64	18	840

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02.

Among trauma patients, 93% of injuries were blunt in nature (e.g., motor vehicle related, falls, or assaults with a blunt object). Ninety-seven percent of Children's Hospital and Health Center's trauma patients sustained blunt injuries. Scripps Mercy Hospital and UCSD Medical Center received the highest percentages of penetrating injuries among each facility's trauma patients (11% of each facility's patients). Penetrating injuries include stabs and gunshot wounds.

Figure 1.6: Distribution of Trauma Center Patients by Hospital and Injury Type



Source: San Diego County Trauma Center Monthly Reports, FY 2001/02.

Trauma System Resources

During FY 2001/02, San Diego County had 21 civilian and two military emergency departments. The 21 civilian hospitals included eight base hospitals, five adult trauma centers, and one pediatric trauma center. The prehospital setting consisted of 21 ground transport agencies equipped to deliver advanced life support (ALS) services, two air transport agencies, and 33 basic life support (BLS) agencies. Half of trauma patients were reported to have been transported to trauma centers by ground ALS ambulance units.

Table 1.11: Trauma Patient Mode of Arrival

Transport Mode	1993/94		1994/95		1995/96		1996/97		1997/98		1998/99		1999/00		2000/01		2001/02	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Ground ALS	2,487	59%	2,553	62%	2,694	63%	2,740	64%	3,268	66%	3,128	63%	3,143	62%	2,610	50%	2,652	50%
Air ALS	686	16%	587	14%	535	13%	484	11%	611	12%	598	12%	525	10%	488	9%	453	9%
Ground BLS	145	3%	129	3%	149	4%	126	3%	107	2%	87	2%	106	2%	134	3%	71	1%
Air BLS	6	0%	12	0%	11	0%	9	0%	12	0%	15	0%	5	0%	0	0%	0	0%
Interfacility	750	18%	637	16%	646	15%	660	16%	668	13%	843	17%	796	16%	672	13%	996	19%
Walk In	142	3%	148	4%	193	5%	206	5%	241	5%	274	5%	261	5%	349	7%	302	6%
Other/Unreported	19	0%	19	0%	22	1%	28	1%	44	1%	50	1%	257	5%	916	18%	833	16%
Total	4,235	100%	4,085	100%	4,250	100%	4,253	100%	4,951	100%	4,995	100%	5,093	100%	5,169	100%	5,307	100%

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data: FY 1993/94 -2001/02.

The mean time spent on scene with a trauma patient prior to transport was 17 minutes during FY 2001/02, and ranged from 16 minutes for Advanced Life Support (ALS) air transport agencies to 23 minutes for ground ALS ambulance units. Prolonged scene times can be attributed to the type of call, complicated extrication procedures, road conditions, and difficulty accessing patients.

Table 1.12: Mean Scene Time by Mode of Arrival

Transport Mode	Scene Time in Minutes																	
	1993/94		1994/95		1995/96		1996/97		1997/98		1998/99		1999/00		2000/01		2001/02*	
	Range	Mean	Range	Mean	Range	Mean	Range	Mean	Range	Mean	Range	Mean	Range	Mean	Range	Mean	Range	Mean
Ground ALS	0-121	15	0-218	15	0-107	15	1-72	16	1-336	18	0-88	18	0-86	18	0-113	18	0-55	23
Air ALS	1-99	31	4-120	26	5-120	22	1-71	21	5-110	25	4-123	24	2-145	22	0-66	19	0-273	16
Ground BLS	1-85	17	1-71	21	1-83	20	6-59	19	4-33	17	5-52	20	5-45	18	22-37	21	12-28	20
Air BLS	38-150	48	5-26	16	20-36	29	*	*	8-24	14	10-24	15	11-22	16	--	--	--	--
Overall	0-150	18	0-218	17	0-120	16	1-72	17	1-336	19	0-123	19	0-145	19	0-113	20	0-273	17

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry, FY 1993/94-2001/02.

Note: Scene times were not reported for all eligible incidents.

*One case with scene time greater than 7 hours was excluded, assuming it was incorrectly recorded.

Trauma Patient Outcomes

Please note that the following section only includes patients who were admitted to designated trauma centers and does not include patients who died at a non-trauma center or on scene. Of the trauma patients who were admitted to designated trauma centers, 95% survived.

The severity of a trauma patient's injuries is given by the Injury Severity Score (ISS), which gives a measure of the three most severely injured body regions, and increases in relation to the severity of the injuries. Trauma Patients with an ISS of less than 15 have an approximate 99% survival rate in San Diego County. As shown in the table below, as a patient's ISS increases to 15 or more, the survival rate from injuries decreases to 83%.

Table 1.13: Trauma Patient Outcome by Injury Severity Score

Fiscal Year	Injury Severity Score					
	<9		9-14		15+	
	#	%	#	%	#	%
1993/94						
Survived	1,721	99.70%	1,239	98.80%	986	78.50%
Expired	5	0.30%	14	1.20%	270	21.40%
1994/95						
Survived	1,598	99.70%	1,236	99.50%	944	76.00%
Expired	4	0.30%	5	0.50%	298	24.00%
1995/96						
Survived	1,851	99.99%	1,321	99.40%	1,072	80.54%
Expired	1	0.01%	8	0.60%	259	19.46%
1996/97						
Survived	1,959	99.70%	1,362	99.80%	932	80.00%
Expired	5	0.30%	3	0.20%	233	20.00%
1997/98						
Survived	2,297	99.78%	1,381	99.42%	977	81.01%
Expired	5	0.21%	8	0.58%	229	18.99%
1998/99						
Survived	2,301	99.57%	1,392	99.00%	1,057	82.71%
Expired	10	0.21%	14	1.00%	221	17.29%
1999/00						
Survived	2329	99.53%	1503	99.40%	954	82.81%
Expired	11	0.47%	9	0.60%	198	17.19%
2000/01						
Survived	2171	99.31%	1634	99.15%	1038	80.65%
Expired	15	0.69%	14	0.85%	249	19.35%
2001/02**						
Survived	2265	99.34%	1633	98.97%	1114	83.20%
Expired	15	0.66%	17	1.03%	225	16.80%

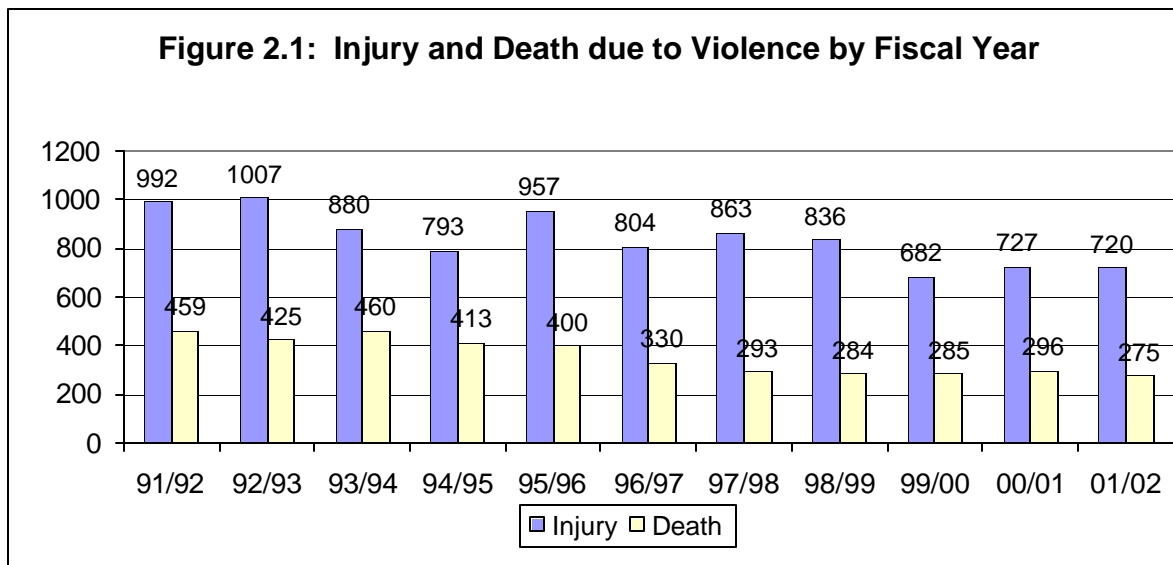
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry: FY 1992/93 to 2001/02.

*38 patients had missing injury severity scores during FY 2001/02

The Injury Severity Score (ISS) is a modification of the Abbreviated Injury Scale (AIS) developed to deal with multiple injuries. The ISS incorporates the AIS scores for the most significant injuries in three different body regions. The ISS is calculated by summing the squares of the AIS scores for these injuries. AIS scores up to five are squared, so that the maximum ISS is 75. An AIS score of 6 in any body region is an automatic ISS of 75.

Overall Violent Injury

Violence that results in injury can be interpersonal (assault, homicide, legal intervention) or self-inflicted (self-inflicted injury or suicide). From FY 1991/92 through 2001/02 there were nearly three times as many injuries and deaths due to interpersonal violence as there were resulting from self-inflicted injuries, but 70% of self-inflicted injuries were fatal, compared with only 17% of injuries inflicted by another person. Overall, the number of non-fatal injuries due to violence (both assault and self-inflicted) decreased by 27% from FY 1991/92 to 2001/02, and deaths declined by 40%.

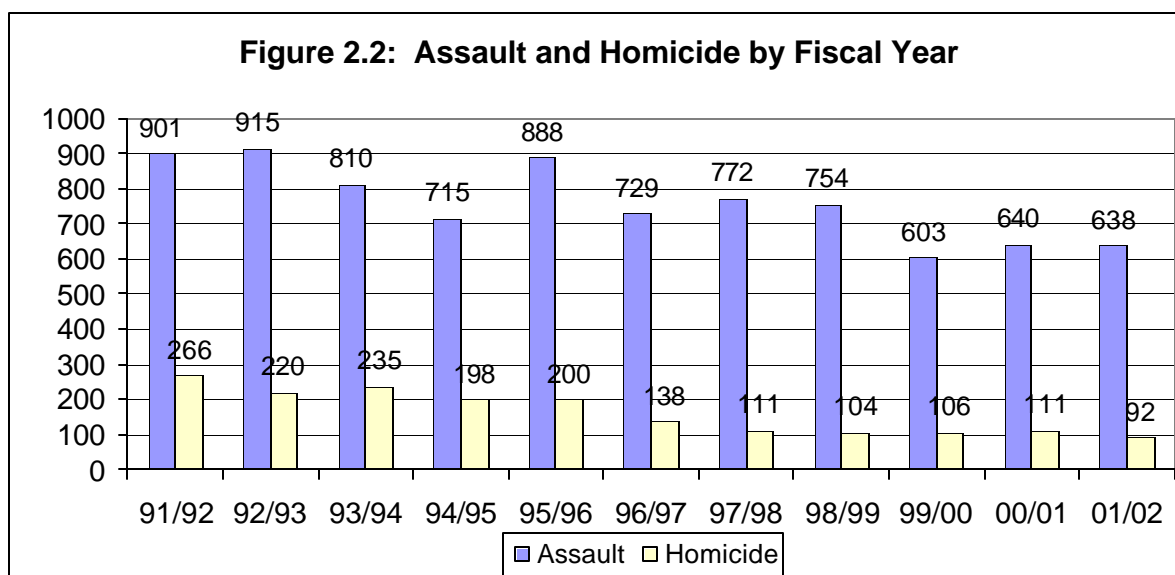


Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 1991/92 - 2001/02

Homicide and Assault

Homicide was the fourth leading cause of traumatic death and accounted for the third greatest number of years of potential life lost during FY 2001/02. For every homicide, there were nearly seven nonfatal severe assaults.

Over the eleven years shown, the number of assaults decreased by 29% and the number of homicides decreased by 65%. These decreases accounted for essentially the entire change in the number of injuries and deaths due to violence during this time period.

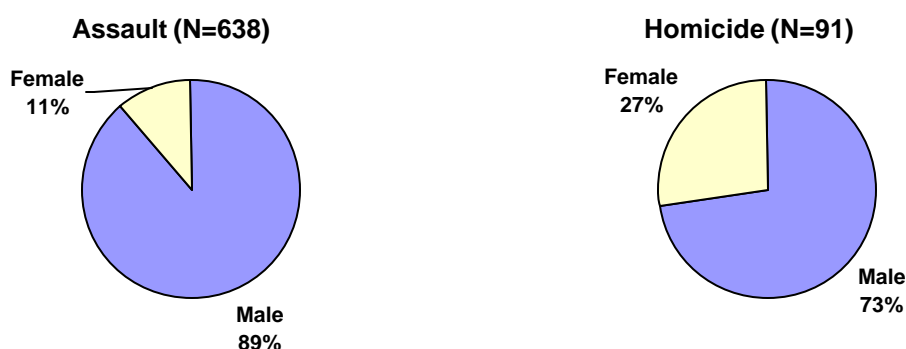


Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 1991/92 - 2001/02

Males were disproportionately affected by interpersonal violence, with 89% of nonfatal injuries from assaults and 73% of homicides.

The age- and gender-specific assault and homicide rates show that males 20-24 years of age were at highest risk for assault injuries (95 per 100,000) and males aged 15-19 had the greatest risk of homicide (7.9 per 100,000). The highest-risk age group for females was 20 to 24 years, with an assault rate of 11.5 per 100,000.

Figure 2.3: Assault and Homicide by Gender



*Total includes 1 assault with unknown gender.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data; FY 2001/02.

Table 2.1: Number and Rate (per 100,000) of Assault and Homicide by Age Group and Gender

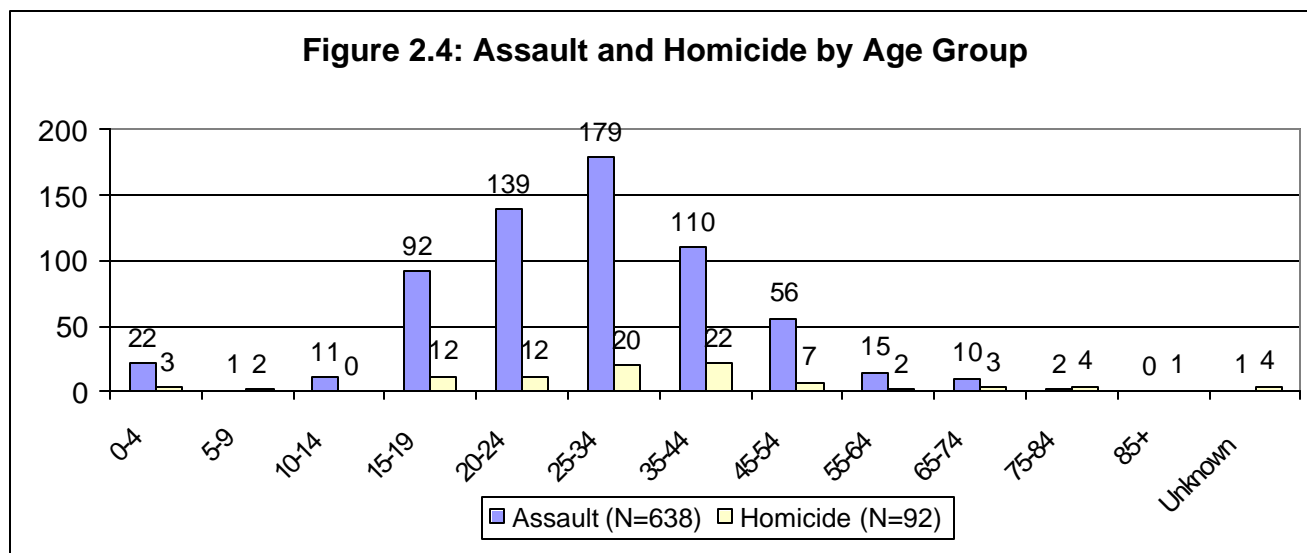
	Assault						Homicide						Overall Total**	
	Male		Female		Total		Male		Female		Total			
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
0-4	11	11.07	11	11.18	22	11.12	2	*	1	*	3	*	25	12.64
5-9	1	*	0	*	1	*	1	*	1	*	2	*	3	*
10-14	10	9.05	1	*	11	5.13	0	*	0	*	0	*	11	5.13
15-19	83	73.11	9	9.01	92	43.11	9	7.93	3	*	12	5.62	104	48.73
20-24	127	94.96	12	11.54	139	58.48	10	7.48	2	*	12	5.05	151	63.53
25-34	161	67.21	17	7.76	179	39.04	18	7.51	2	*	20	4.36	199	43.40
35-44	96	41.15	14	6.19	110	23.94	16	6.86	6	2.65	22	4.79	132	28.73
45-54	49	26.47	7	3.66	56	14.88	5	2.70	2	*	7	1.86	63	16.74
55-64	15	13.98	0	*	15	6.69	2	*	0	*	2	*	17	7.58
65-74	10	13.77	0	*	10	6.26	3	*	0	*	3	*	13	8.14
75-84	1	*	1	*	2	*	0	*	4	*	4	*	6	4.95
85+	0	*	0	*	-	*	0	*	1	*	1	*	1	*
Unknown	1	*	0	*	1	*	0	*	3	*	3	*	4	*
Total	565	38.58	72	4.99	638	21.94	66	4.51	25	1.73	92	3.16	729	25.06

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data; FY 2001/02; Population estimates, SANDAG.

*Rates not calculated on less than five incidents.

**Includes 2 cases of unknown gender (1 assault and 1 homicide).

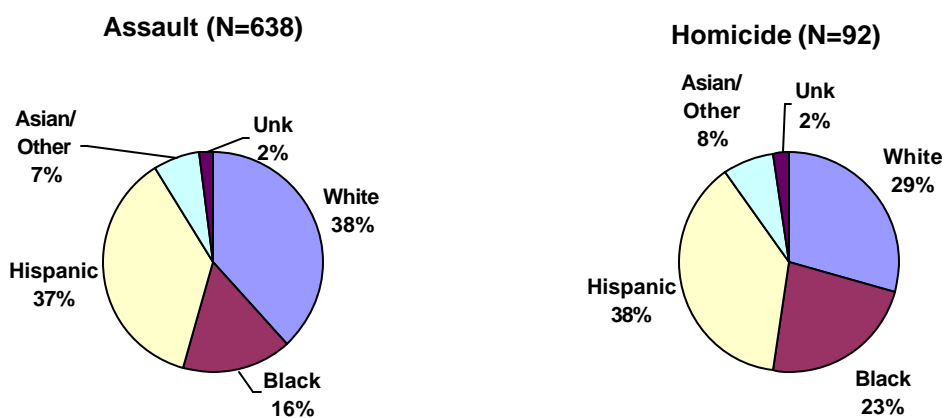
Figure 2.4 shows the age distribution of assault and homicide. Violent interpersonal injuries cluster strongly in teenagers and young adults, with persons aged 15-34 years sustaining 64% of assaults and 48% of homicides.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02

The Black population was most over represented among assault and homicide victims. In spite of making up only five percent of the county population, 16% of assaults and 23% of homicides were Black.

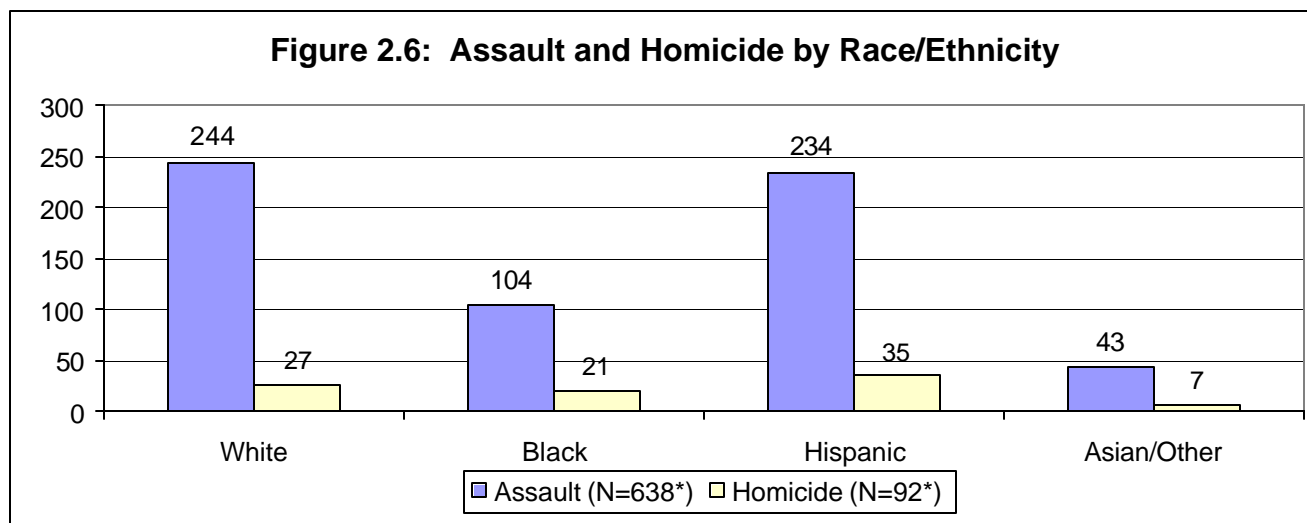
Figure 2.5: Assault and Homicide by Race/Ethnicity



*Totals include 13 assaults and two homicides with unspecified race/ethnicity.

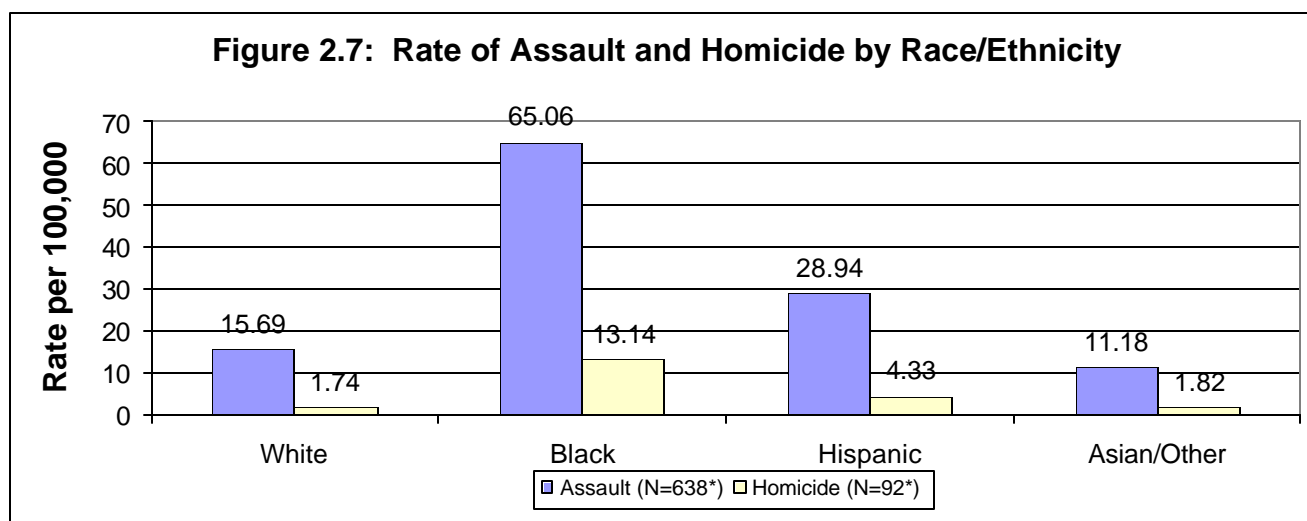
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02.

Figure 2.6 shows the number of assaults and homicides by race/ethnicity, while figure 2.7 illustrates the rate per 100,000 population. As these figures show, the highest number of assaults and homicides are seen among the White and Hispanic populations. The rates shown in figure 2.7, however, show that the Black population is at the highest risk of injury and death from assault.



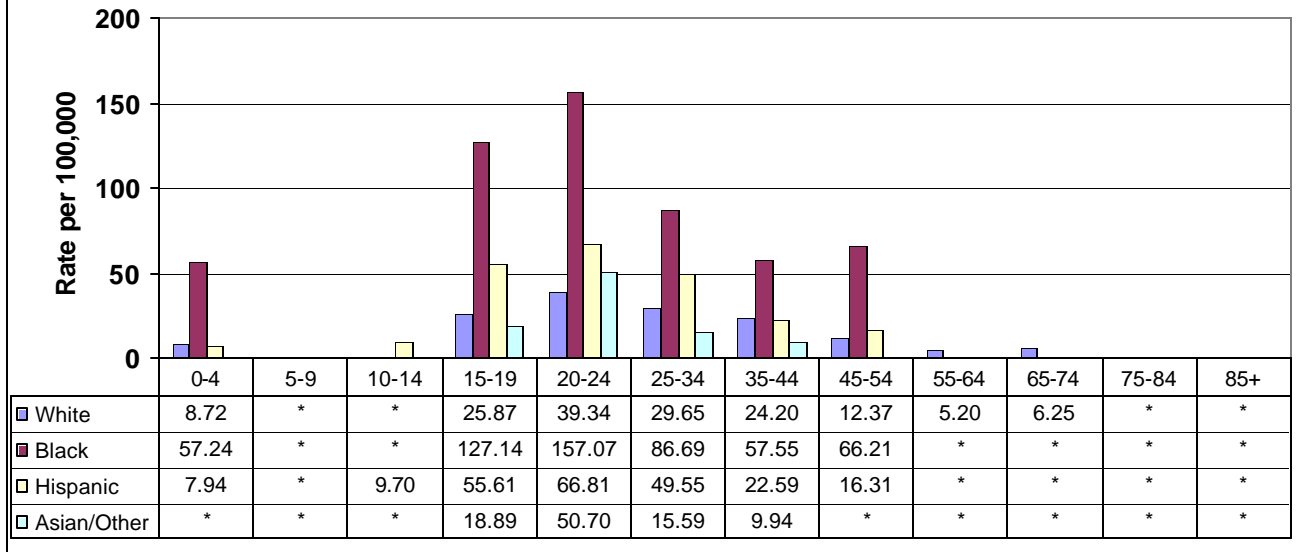
*Totals include 13 assaults and two homicides with unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02



*Totals include 13 assaults and two homicides with unspecified race/ethnicity.

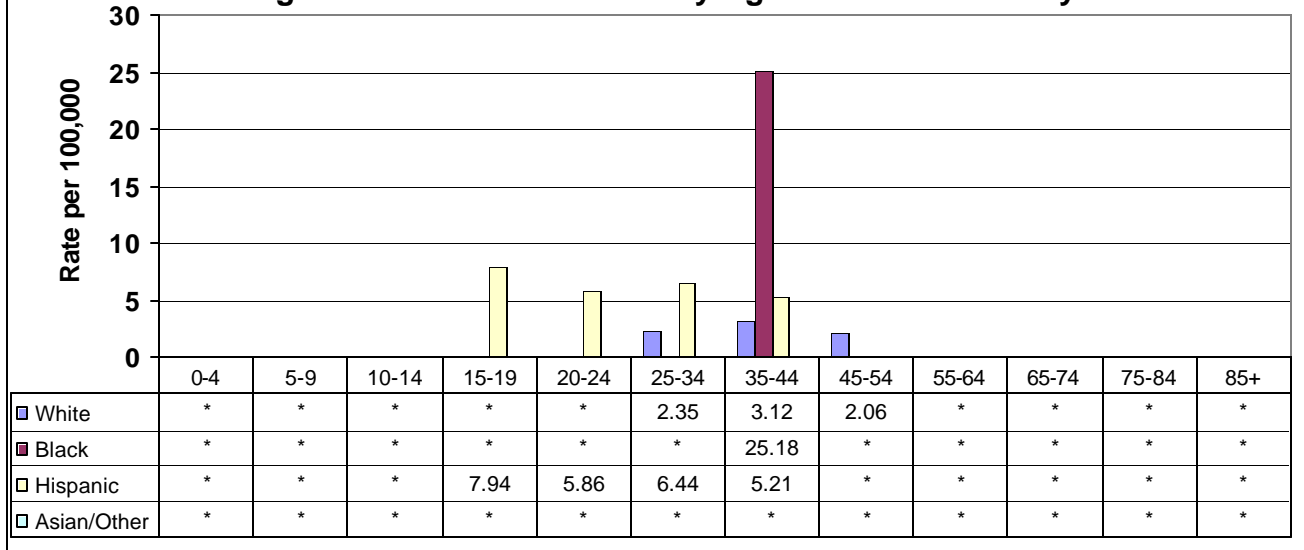
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02

Figure 2.8: Assault Rates by Age and Race/Ethnicity

Note: Rates not calculated on fewer than five incidents

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02.

Population estimates, SANDAG

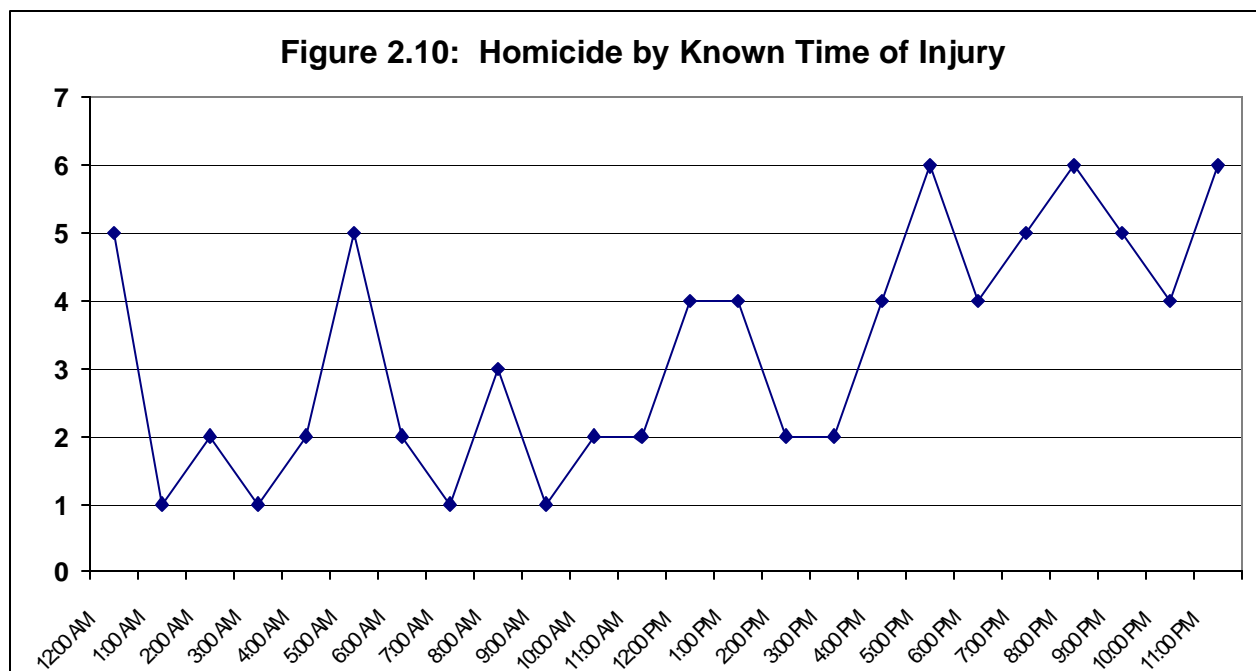
Figure 2.9: Homicide Rates by Age and Race/Ethnicity

Note: Rates not calculated on fewer than five incidents

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02.

Population estimates, SANDAG

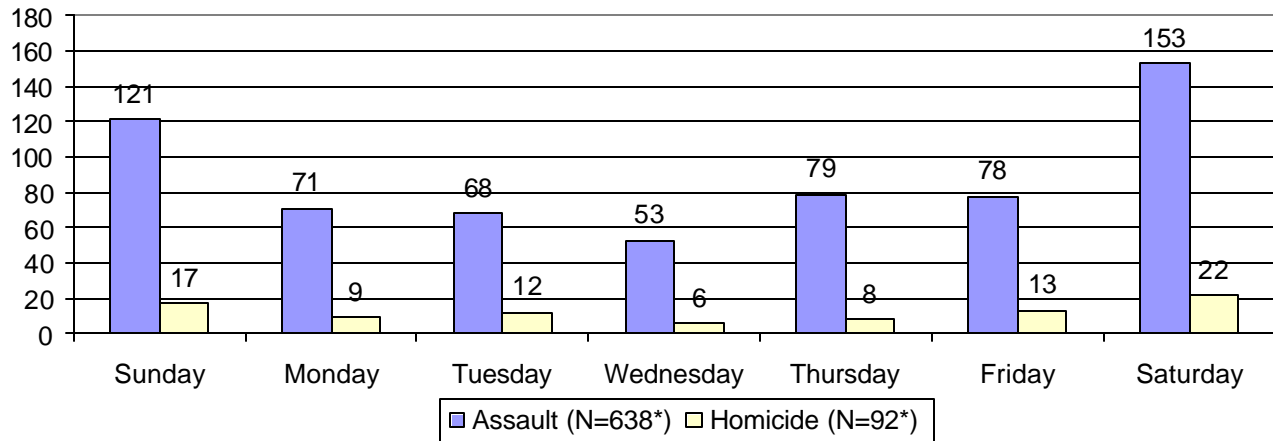
During FY 2001/02, homicides were most common in the evening hours, with 27% of homicides occurring between the hours of 8:00 p.m. and midnight. Weekends saw the highest number of assaults and homicides, with 44% of assaults and 45% of homicides taking place on Saturdays and Sundays. The highest number of assaults occurred in July (68), while September had the greatest number of homicides (15).



All times are in one hour increments, for example, 6:00 - 6:59 = 6:00

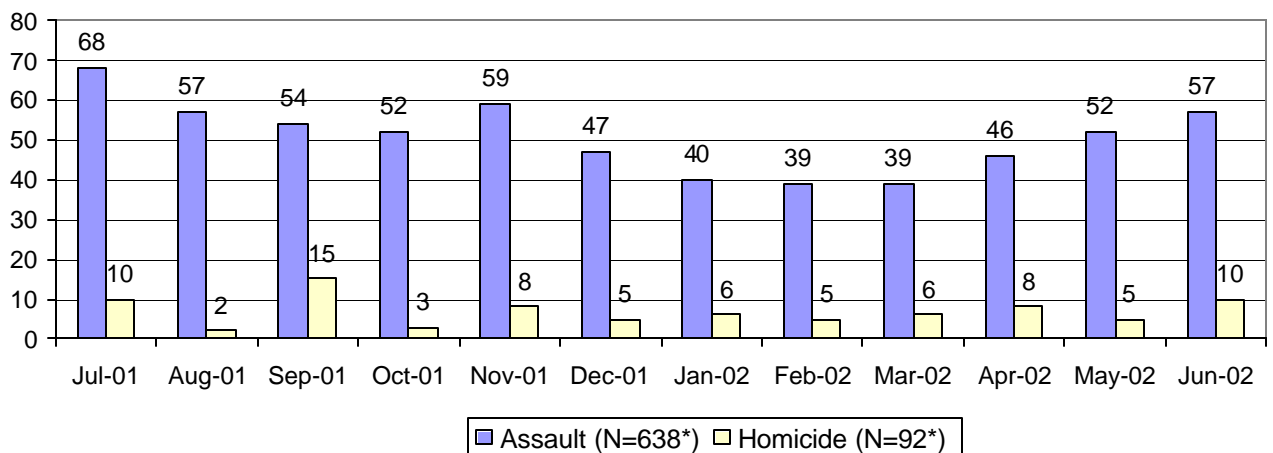
There were thirteen homicides with an unidentified time of injury

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Medical Examiner's Data, FY 2001/02

Figure 2.11: Assault and Homicide by Incident Day of Week

*Totals include 15 assaults and five homicides with unspecified incident dates.

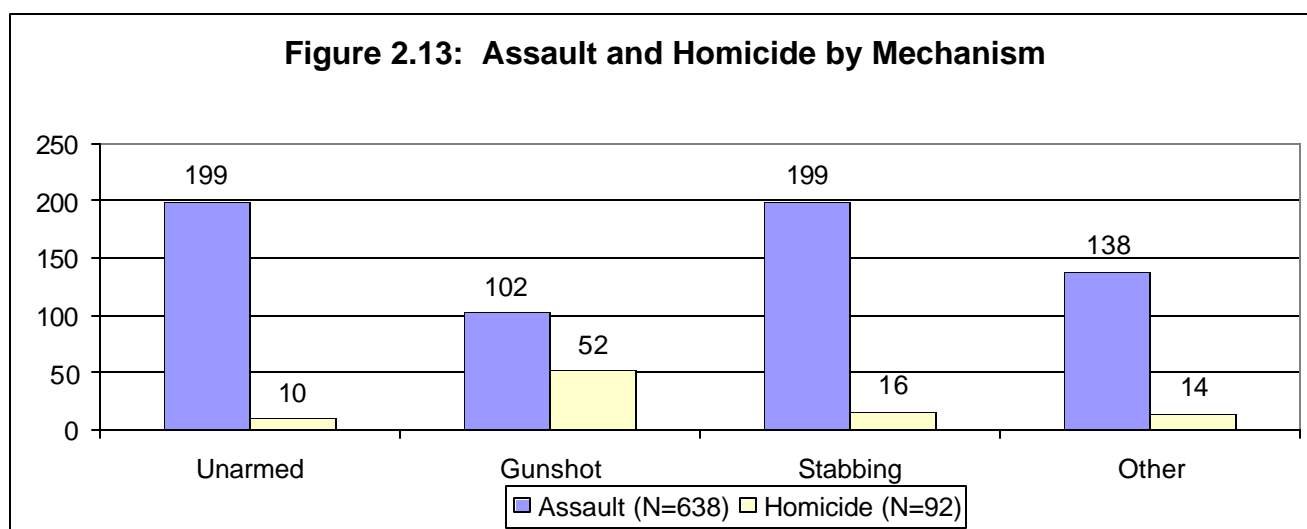
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02

Figure 2.12: Assault and Homicide by Incident Month

*Totals include 15 assaults and five homicides with unspecified incident dates, and 13 assaults and four homicides that occurred prior to July 2001.

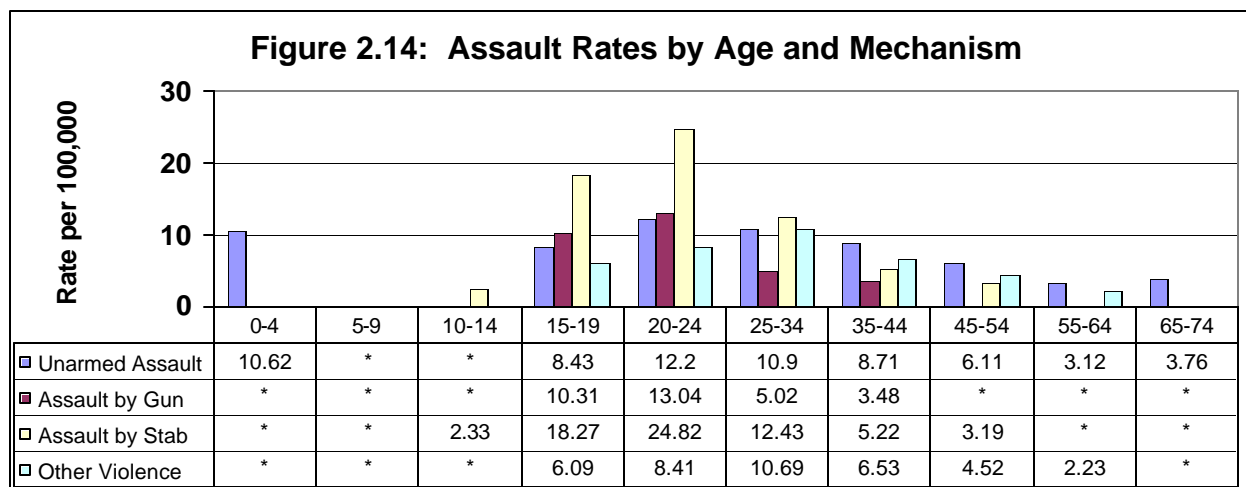
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02

Figure 2.13 shows a breakdown of mechanism of injury for homicides and assaults. Unarmed assaults and stabbings were the leading causes of nonfatal injury. The leading cause of homicide was gunshot wounds, followed by stabbing and other assaults. Unarmed assaults include any assault not involving a gunshot or stab wound, and can include being pushed from a vehicle, an unarmed brawl or fight, or child abuse.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02

Unarmed assault was the primary cause of assault injury for children younger than 5 years and for adults aged 35 and older. Stabbings were more common among trauma patients between 15 and 34 years of age.

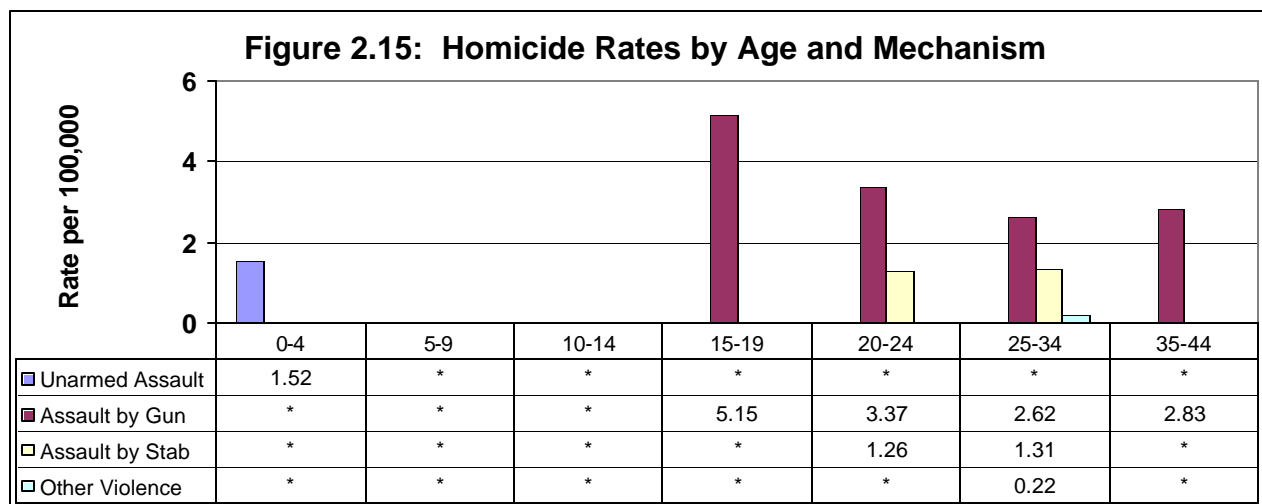


Note: Rates not calculated on fewer than five incidents.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02.

Population estimates, SANDAG.

The use of firearms was highly associated with trauma patient fatalities. Firearms were the mechanism in 57% of all traumatic homicides. The highest rate of homicide due to a gunshot wound was among 15-19 year olds (5.15 per 100,000). Firearms were the primary mechanism of injury in homicides for every age group between 15 and 44.



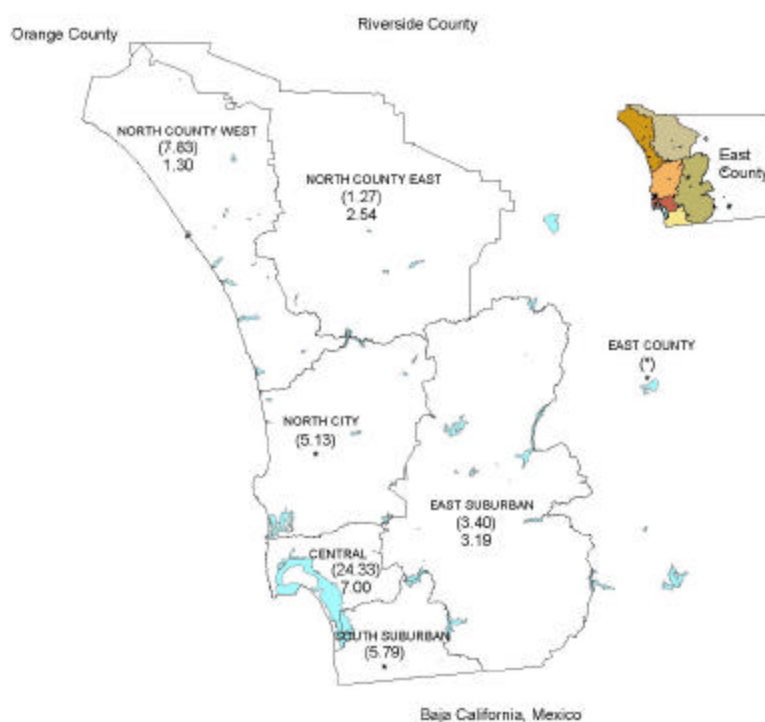
Note: Rates not calculated on fewer than five incidents.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02.

Population estimates, SANDAG.

Rates of injury by subregional areas (SRAs) and Major Statistical Areas (MSAs) were calculated from the zip code where the incident took place. The incident zip code was available for 40% of non-fatal assaults and for 88% of homicides. Homicide and assault rates were more than two times higher in the Central MSA than in other areas of the county. When incident zip code was known, the Central MSA accounted for 59% of assaults and 54% of homicides. Population estimates for each of the MSAs can be found in Appendix B.

Figure 2.16: Assault and Homicide Rates per 100,000 by San Diego Major Statistical Area



Legend

Rates displayed in parentheses () reflect nonfatal assaults while those not in parentheses indicate homicide.

*Rates not calculated on fewer than five incidents.

Please note there were 380 assaults and 11 homicides with an unknown incident zip code.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data: FY 2001/02; Population estimates, San Diego Association of Governments (SANDAG)

Table 2.2: Homicide and Assault by Mechanism and San Diego County MSA and SRA

MSA	SRA	Unarmed Assault		Gunshot		Stabbing		Other Assault		Overall Total
		Assault	Homicide	Assault	Homicide	Assault	Homicide	Assault	Homicide	
CENTRAL	Central San Diego	13	1	7	12	9	3	12	0	57
	Peninsula	2	0	0	0	0	0	1	0	3
	Coronado	0	0	0	0	0	0	0	0	0
	National City	3	0	2	2	7	0	1	0	15
	Southeast San Diego	7	2	18	11	14	3	8	2	65
	Mid-City	14	1	9	3	17	3	9	1	57
	Total	39	4	36	28	47	9	31	3	197
NORTH CITY	Kearny Mesa	3	0	0	2	6	0	0	0	11
	Coastal	8	0	0	1	7	0	2	0	18
	University	2	0	1	0	0	0	0	0	3
	Del Mar-Mira Mesa	0	0	0	0	1	0	1	0	2
	North San Diego	0	0	0	0	0	0	0	0	0
	Poway	1	0	1	0	0	0	0	0	2
	Miramar	1	0	0	0	0	0	0	0	1
	Elliott-Navajo	0	0	0	0	0	0	1	0	1
	Total	15	0	2	3	14	0	4	0	38
SOUTH SUBURBAN	Sweetwater	0	0	2	0	0	0	0	0	2
	Chula Vista	2	1	3	0	5	0	1	0	12
	South Bay	2	0	1	1	3	1	0	0	8
	Total	4	1	6	1	8	1	1	0	22
EAST SUBURBAN	Jamul	0	0	0	0	0	0	0	0	0
	Spring Valley	1	1	1	1	0	0	0	0	4
	Lemon Grove	1	0	0	0	2	0	3	0	6
	La Mesa	0	0	1	0	0	1	0	1	3
	El Cajon	2	0	0	2	1	0	0	0	5
	Santee	0	0	0	0	1	1	0	0	2
	Lakeside	0	0	1	1	1	0	0	2	5
	Harbison Crest	0	0	0	1	0	0	0	0	1
	Alpine	0	0	0	3	0	0	0	0	3
	Ramona	1	0	0	1	0	0	0	0	2
	Total	5	1	3	9	5	2	3	3	31
NORTH COUNTY WEST	San Dieguito	0	0	0	0	1	0	0	0	1
	Carlsbad	2	0	0	0	0	0	1	1	4
	Oceanside	6	2	4	1	11	0	4	0	28
	Pendleton	0	0	0	1	1	0	0	0	2
	Total	8	2	4	2	13	0	5	1	35
NORTH COUNTY EAST	Escondido	0	0	0	4	1	1	0	0	6
	San Marcos	0	0	0	0	0	1	0	1	2
	Vista	1	1	0	0	1	1	1	0	5
	Valley Center	0	0	0	0	1	0	0	0	1
	Pauma	0	0	0	0	0	0	0	0	0
	Fallbrook	0	0	0	0	0	0	0	1	1
	Total	1	1	0	4	3	3	1	2	15
EAST COUNTY	Palomar-Julian	0	0	0	0	0	0	0	0	0
	Laguna-Pine Valley	0	0	0	0	0	1	0	0	1
	Mountain Empire	0	0	0	0	0	0	0	0	0
	Anza Borrego Springs	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	1	0	0	1
OTHER/ UNKNOWN	Out of County	0	0	0	0	0	0	0	0	0
	Unknown	127	1	51	5	109	0	93	5	391
	Total	127	1	51	5	109	0	93	5	391
TOTAL		199	10	102	52	199	16	138	14	730

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2001/02.

Table 2.3: Homicide and Assault by Mechanism and County Major Statistical Area

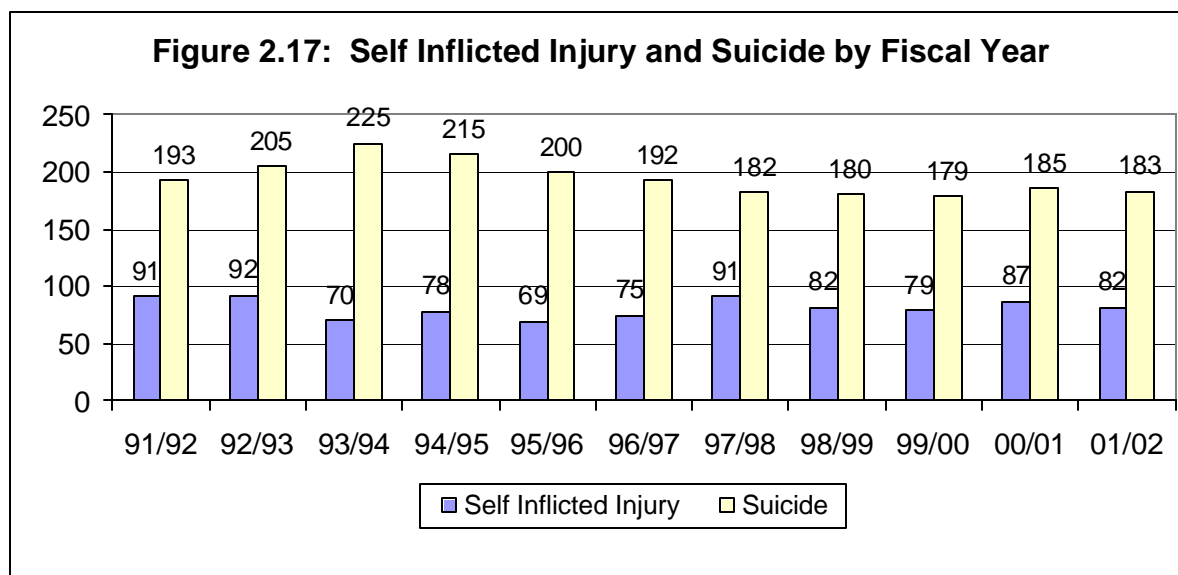
MSA	Unarmed Assault		Gunshot		Stabbing		Other Assault		Overall		Overall Total
	Assault	Homicide	Assault	Homicide	Assault	Homicide	Assault	Homicide	Assault	Homicide	
Center	39	4	36	28	47	9	31	3	153	44	197
North City	15	0	2	3	14	0	4	0	35	3	38
S Suburban	4	1	6	1	8	1	1	0	19	3	22
E Suburban	5	1	3	9	5	2	3	3	16	15	31
North Cnty West	8	2	4	2	13	0	5	1	30	5	35
North Cnty East	1	1	0	4	3	3	1	2	5	10	15
East Cnty	0	0	0	0	0	1	0	0	0	1	1
Oth/Unk	127	1	51	5	109	0	93	5	380	11	391
Overall Total	199	10	102	52	199	16	138	14	638	92	730

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 2001/02.

Suicide and Self-Inflicted Injury

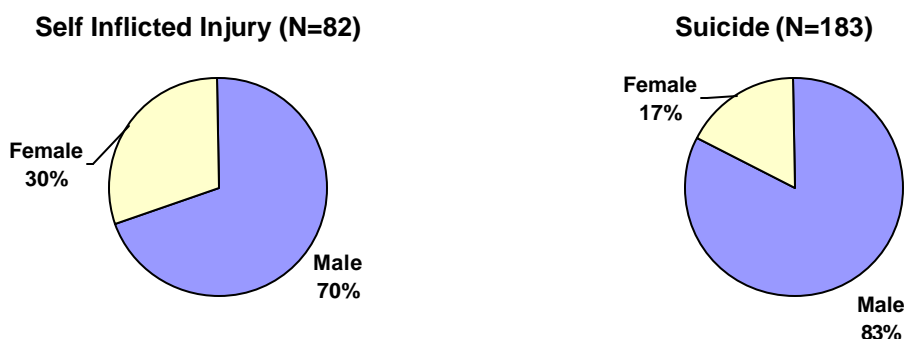
Suicide¹ was the second leading cause of traumatic death and years of potential life lost during FY 2001/02. For every trauma patient who sustained a non-fatal self-inflicted injury, more than two died as a result of their injuries.

The figure below shows the number of suicides and self-inflicted injuries by fiscal year. The number of traumatic suicides peaked in FY 1993/94 (225). The number of suicides and self-inflicted injuries in FY 2001/02 did not change significantly from the previous fiscal year.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 1991/92 - 2001/02

¹ For the purpose of this report, suicide and self-inflicted injury exclude deaths and severe injuries due to poisoning, drowning, or suffocation as they are considered medical rather than traumatic in nature.

Figure 2.18: Self-Inflicted Injury and Suicide by Gender

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 2001/02; Population Estimates, SANDAG

Males made up 70% of traumatic self-inflicted injuries and 83% of suicides. Males had a higher rate of suicide and self-inflicted injury than females in every age group. As Table 2.4 shows, the traumatic suicide rate is highest among older men, with the rate among 75 to 84 year olds three times higher, and that for men 85 years and older six times higher than the rate for all ages combined.

Table 2.4: Number and Rate (per 100,000) of Self-Inflicted Injury and Suicide by Age Group and Gender

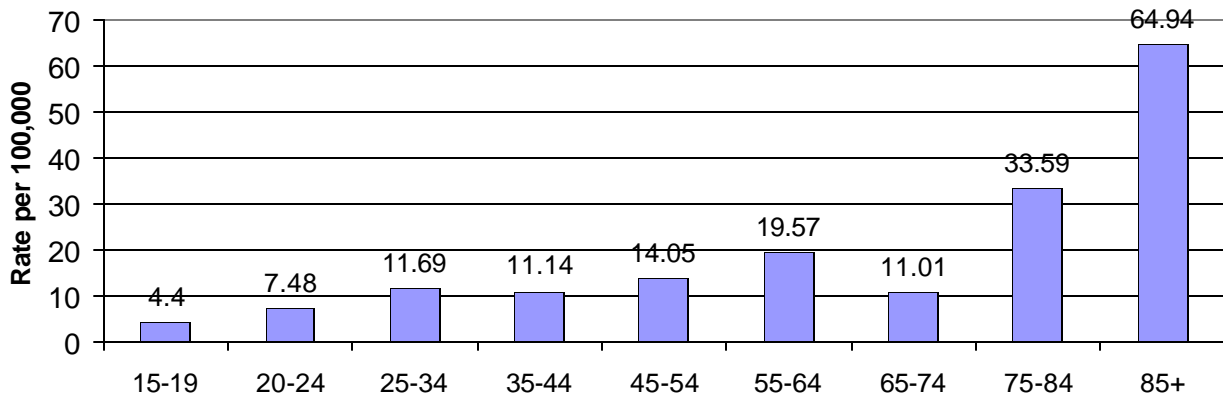
	Self-Inflicted Injury						Suicide						Overall Total	
	Male		Female		Total		Male		Female		Total			
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
0-4	0	*	0	*	0	*	0	*	0	*	0	*	0	*
5-9	0	*	0	*	0	*	0	*	0	*	0	*	0	*
10-14	1	*	1	*	2	*	1	*	0	*	1	*	3	*
15-19	4	*	4	*	8	3.75	5	4.40	4	*	9	4.22	17	7.97
20-24	12	8.97	2	*	14	5.89	10	7.48	5	4.81	15	6.31	29	12.20
25-34	18	7.51	6	2.74	24	5.23	28	11.69	6	2.74	34	7.41	58	12.65
35-44	8	3.43	5	2.21	13	2.83	26	11.14	5	2.21	31	6.75	44	9.58
45-54	8	4.32	3	*	11	2.92	26	14.05	6	3.14	32	8.50	43	11.42
55-64	2	*	3	*	5	2.23	21	19.57	2	*	23	10.26	28	12.49
65-74	1	*	1	*	2	*	8	11.01	2	*	10	6.26	12	7.52
75-84	1	*	0	*	1	*	17	33.59	2	*	19	15.66	20	16.49
85+	2	*	0	*	2	*	9	64.94	0	*	9	22.39	11	27.36
Total	57	3.89	25	1.73	82	2.82	151	10.31	32	2.22	183	6.29	265	9.11

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 2001/02; Population Estimates, SANDAG

*Rates not calculated on less than five incidents.

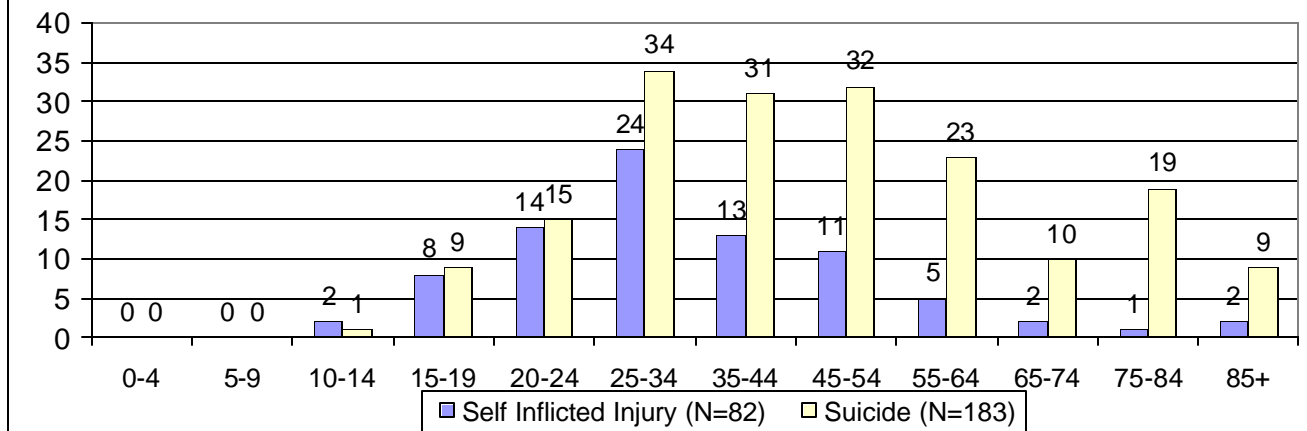
While the highest rates of suicide were found in elderly males, the highest numbers of nonfatal injury, and therefore the group with the greatest impact on the trauma system, were younger than 45 years. Seventy six percent of nonfatal self-inflicted injuries and 42% of completed traumatic suicides were in this age range.

Figure 2.19: Traumatic Suicide Rates by Age Group: Males



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 2001/02; Population Estimates, SANDAG

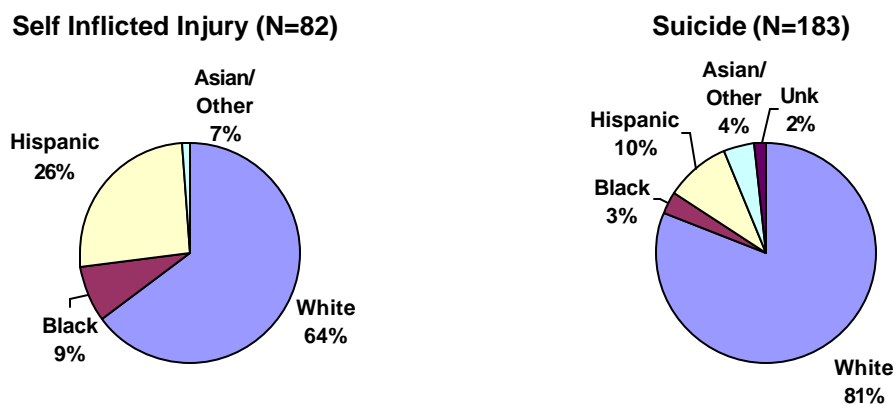
Figure 2.20: Self Inflicted Injury and Suicide by Age Group



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 2001/02; Population Estimates, SANDAG

Self-inflicted injury and suicide were most prevalent in the White population, which made up 54% of the population, but accounted for 64% of self-inflicted injuries and 83% of suicides.

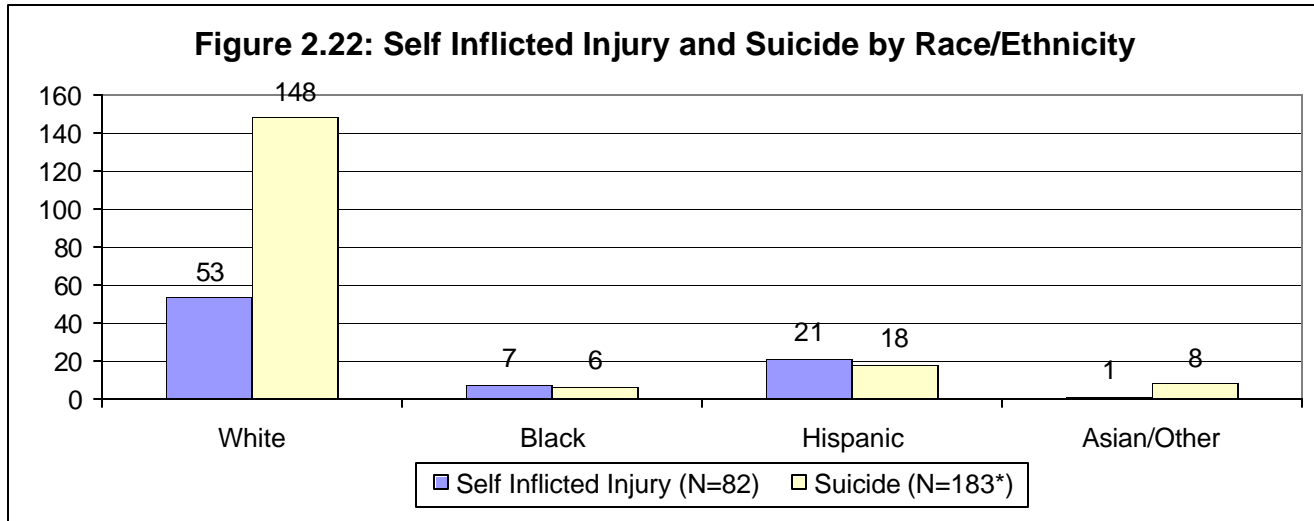
Figure 2.21: Self Inflicted Injury and Suicide by Race/Ethnicity



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 2001/02

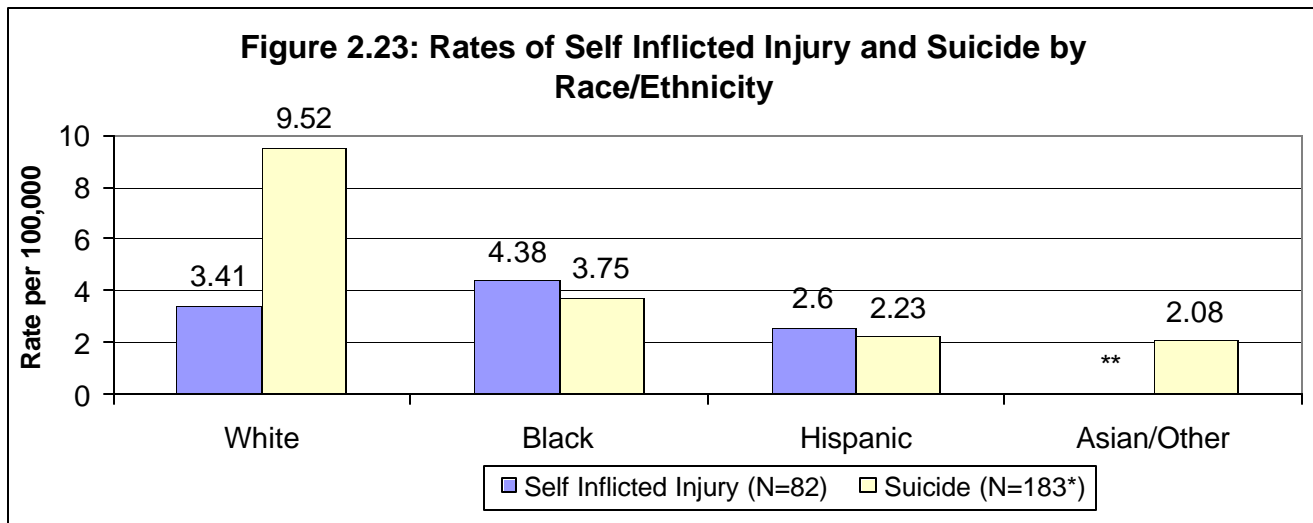
*Totals include three suicides of undetermined race/ethnicity.

The traumatic suicide rate in the White population was more than twice as high as any other race/ethnic group. The rate of nonfatal injuries per 100,000 population, however, was comparable to other groups.



*Totals include three suicides with unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02

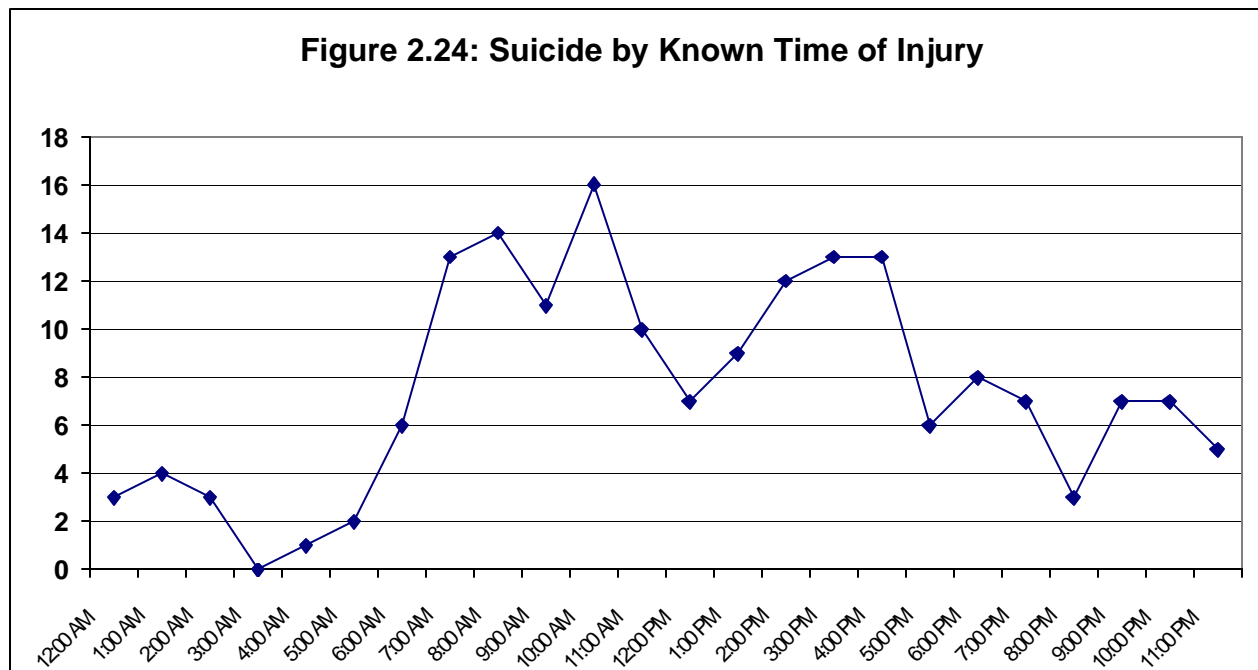


*Totals include three suicides with unspecified race/ethnicity.

**Rates not calculated for fewer than five incidents.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02

The majority of suicides were reported to have occurred during daytime hours, with 72% of incidents between 6 a.m. and 6 p.m.



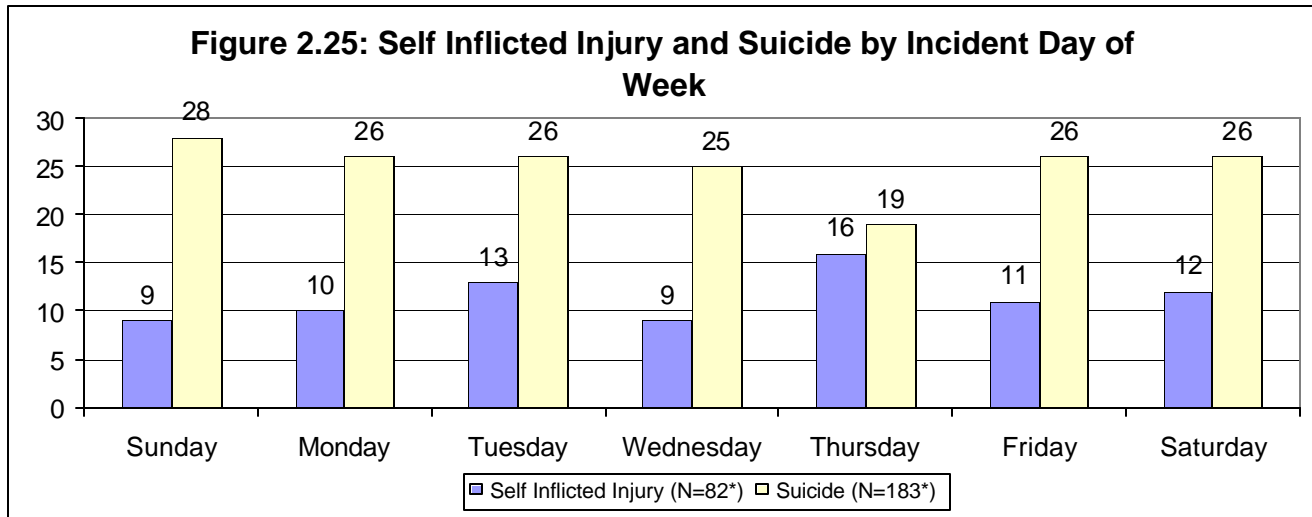
All times are in one hour increments, for example, 6:00 - 6:59 = 6:00

There were three suicides with an unidentified time of injury

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Medical Examiner's Data, FY 2001/02

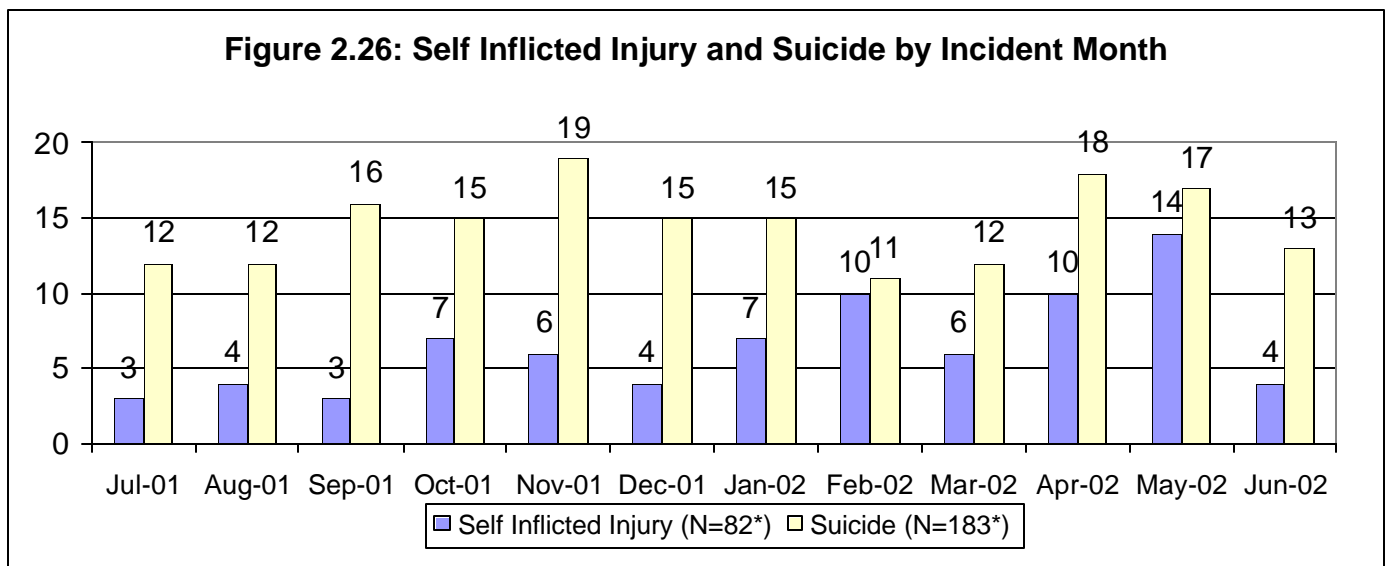
There was little variation by day of week, with Thursdays having the greatest number of nonfatal self-inflicted injuries (16) but the lowest number of completed suicides (19).

The months with the highest numbers of suicides were in the fall (October through December, 49) and spring (April through June, 48). Nonfatal self-inflicted injuries were highest during the month of May (14).



*Totals include two self-inflicted injuries and seven suicides with unspecified incident dates.

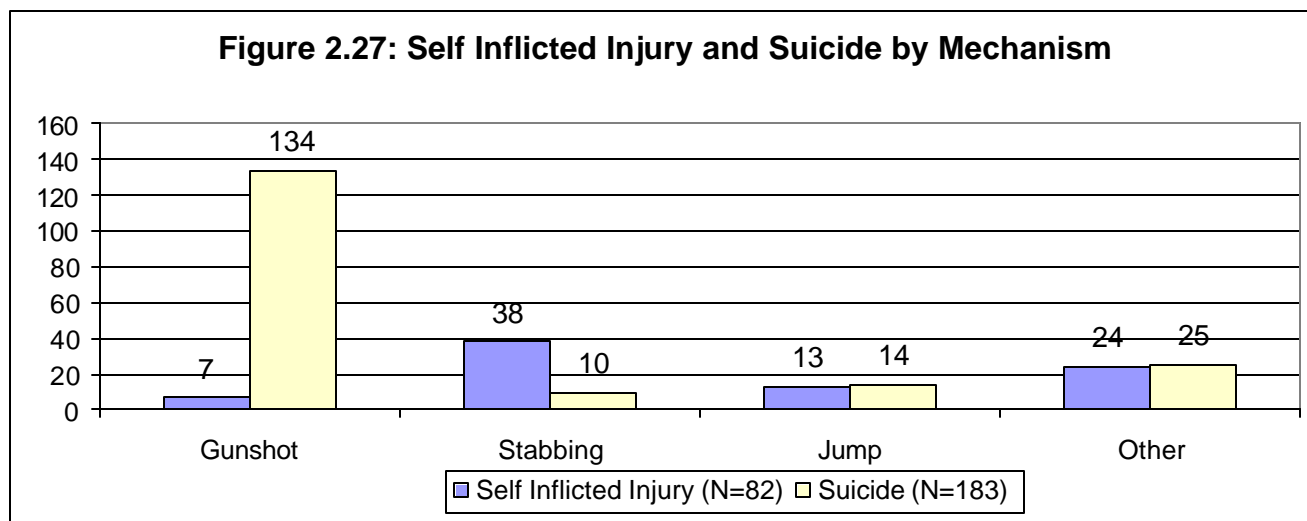
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02



*Totals include two self-inflicted injuries and seven suicides with unspecified incident dates, and two self-inflicted injuries and one suicide in which the injury occurred prior to July 2001.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02

Nonfatal self-inflicted injuries were very different from completed suicides with regard to the mechanism of injury. Gunshot wounds were the mechanism for 73% of completed suicides, but only made up 9% of nonfatal self-inflicted injuries. Self-inflicted cut or stab wounds, meanwhile, made up only 5% of completed suicides, but 46% of nonfatal self-inflicted injuries.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02

Incidence and rates of injury by subregional areas (SRA) and Major Statistical Areas (MSA) were calculated from the zip code where the incident took place. The incident zip code was available for 30% of non-fatal self-inflicted injuries and for 98% of suicides. The highest rates of both suicide and self-inflicted injury were in the Central MSA. Population estimates for each of the MSAs can be found in Appendix B.

Figure 2.28: Self-Inflicted Injury and Suicide Rates per 100,000 by San Diego Major Statistical Area



Legend

Rates displayed in parentheses () reflect self-inflicted injury while those not in parentheses indicate suicide.

*Rates not calculated on fewer than five incidents.

Please note there were 57 self-inflicted injuries and 4 suicides with an unknown incident zip code.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data: FY 2001/02; Population estimates, San Diego Association of Governments (SANDAG)

Table 2.5: Self-Inflicted Injury and Suicide by Mechanism and Major Statistical Area

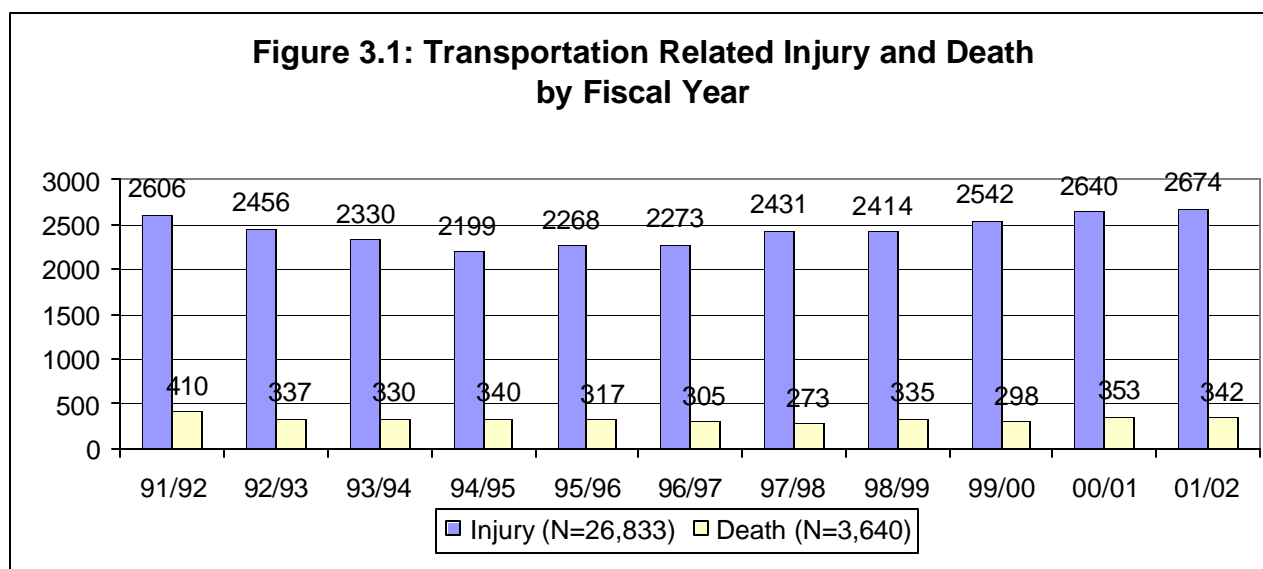
	Gunshot		Stabbing		Jump		Other		Overall Total
	Injury	Death	Injury	Death	Injury	Death	Injury	Death	
Center	0	28	5	4	2	9	4	6	58
North City	0	19	3	1	0	4	1	4	32
S Suburban	0	11	2	0	0	0	0	4	17
E Suburban	0	29	5	2	0	0	0	1	37
North Cnty West	0	26	1	0	1	0	1	7	36
North Cnty East	0	17	0	2	0	1	0	1	21
East Cnty	0	2	0	0	0	0	0	1	3
Oth/Unk	7	2	22	1	10	0	18	1	61
Overall Total	7	134	38	10	13	14	24	25	265

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 2001/02.

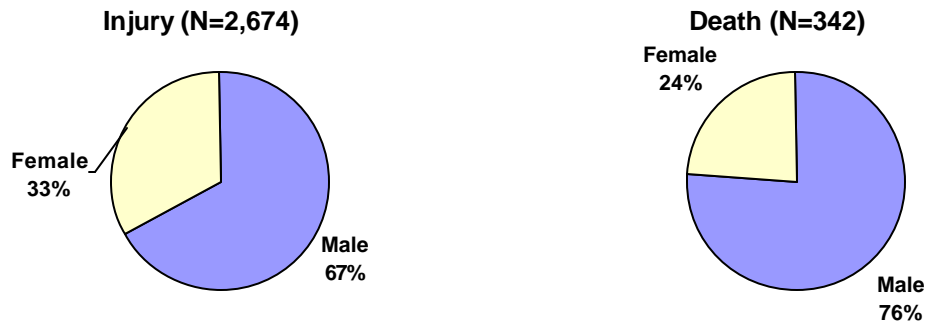
Transportation Related Injuries

Transportation related crashes are those that occur to motor vehicle occupants, motorcyclists, pedalcyclists, pedestrians struck by motor vehicles, and other vehicle occupants. There were 342 lives lost in transportation related crashes during FY 2001/02. For every patient who died as a result of a transportation related crash, more than seven others were injured in such a crash.

The number of severe injuries due to transportation related crashes increased by one percent from the previous fiscal year, while the number of deaths decreased by three percent. Neither of these changes was statistically significant.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 1991/92 – 2001/02

Figure 3.2: Transportation Related Injury and Death by Gender

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data; FY 2001/02.

Males made up 67% of injuries and 76% of deaths related to transportation. Rates of both injury and death were substantially higher in males across the age spectrum.

Table 3.1: Number and Rate (per 100,000)* of Transportation Related Injury and Death by Age Group and Gender

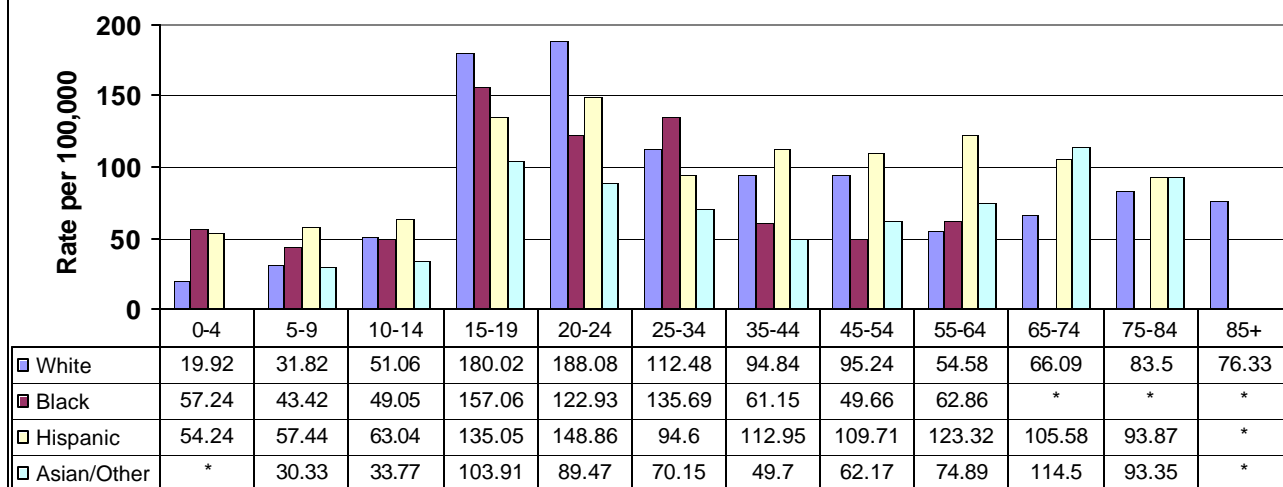
	Injury						Death							
	Male		Female		Total		Male		Female		Total		Overall Total	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
0-4	42	42.25	25	25.40	67	33.87	1	*	3	*	4	*	71	35.89
5-9	58	55.23	30	29.92	88	42.87	4	*	1	*	5	2.44	93	45.31
10-14	81	73.32	35	33.65	116	54.08	3	*	0	*	3	*	119	55.48
15-19	228	200.84	104	104.10	332	155.56	32	28.19	8	8.01	40	18.74	372	174.30
20-24	264	197.39	121	116.40	385	161.97	50	37.39	6	5.77	56	23.56	441	185.53
25-34	340	141.94	139	63.47	479	104.46	37	15.45	11	5.02	48	10.47	527	114.93
35-44	317	135.87	116	51.28	433	94.23	30	12.86	14	6.19	44	9.58	477	103.81
45-54	231	124.80	123	64.31	354	94.06	40	21.61	8	4.18	48	12.75	402	106.81
55-64	93	86.65	62	53.05	155	69.13	28	26.09	9	7.70	37	16.50	192	85.63
65-74	65	89.48	64	73.55	129	80.80	13	17.90	6	6.90	19	11.90	148	92.70
75-84	51	100.76	55	77.81	106	87.39	15	29.64	11	15.56	26	21.43	132	108.82
85+	17	122.66	13	49.35	30	74.62	6	43.29	5	18.98	11	27.36	41	101.98
Unknown	0		0		0		1		0		1		1	
Total	1787	122.02	887	61.43	2,674	91.94	260	17.75	82	5.68	342	11.76	3,016	103.70

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data; FY 2001/02; Population estimates, SANDAG.

*Rates not calculated on fewer than five incidents

The highest overall rates of transportation related injury were in the 15 to 19 and 20 to 24 year age groups, with the White population showing the highest rates within these age groups (180 and 188 per 100,000 among Whites age 15 to 19 and 20 to 24, respectively). Past this age range, the injury rate dropped dramatically in the White population, but remained over 100 per 100,000 among Hispanics through ages 65 to 74. Death rates were highest in both the young and older adult age groups.

Figure 3.3: Transportation Related Injury Rates by Age and Race/Ethnicity

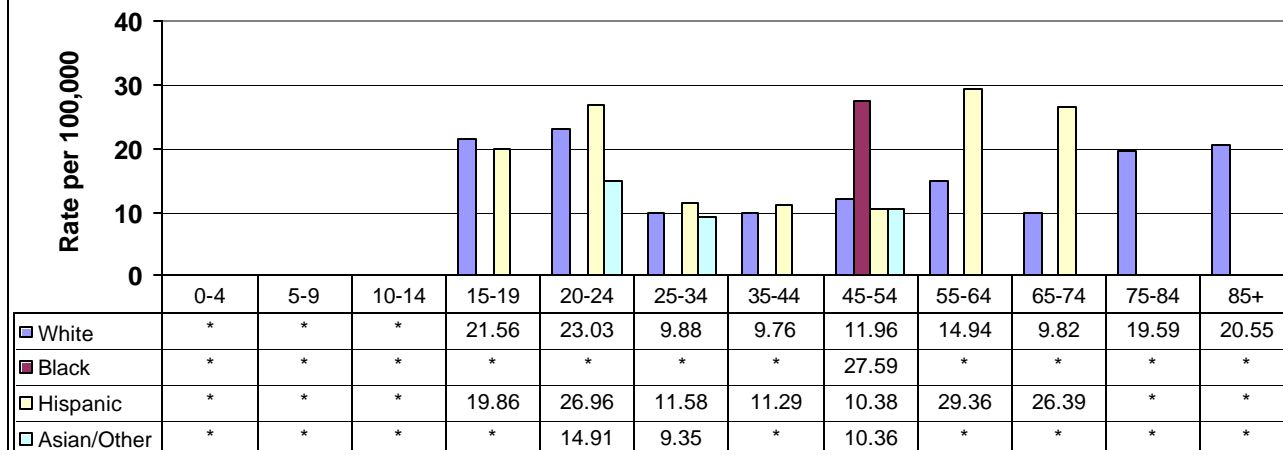


Note: Rates not calculated on fewer than five incidents

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02.

Population estimates, SANDAG

Figure 3.4: Transportation Related Death Rates by Age and Race/Ethnicity

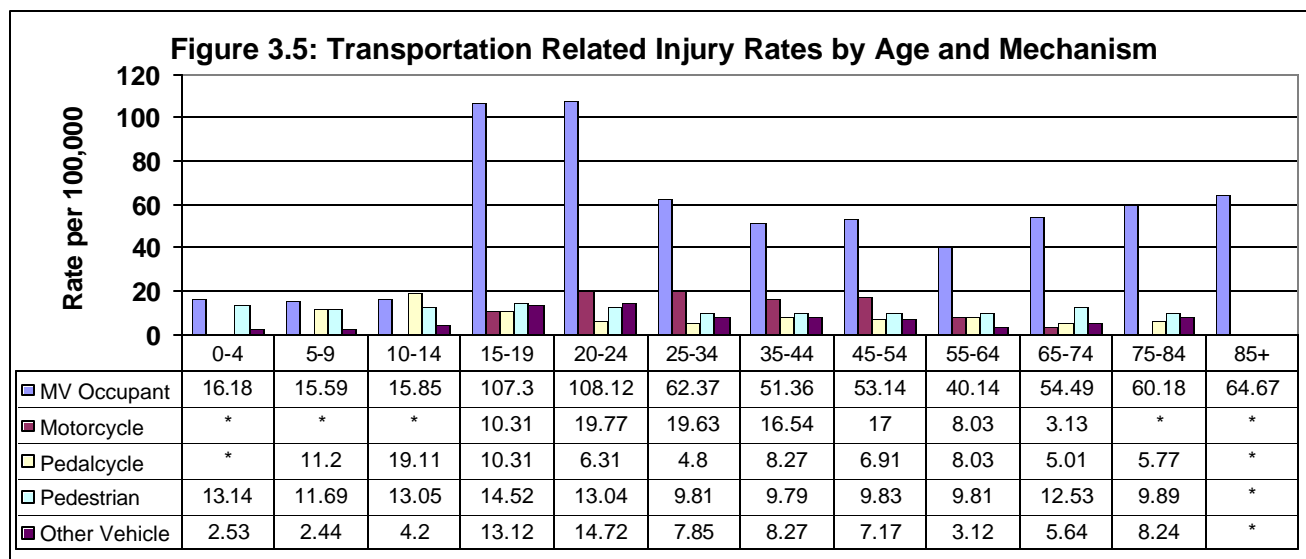


Note: Rates not calculated on fewer than five incidents

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02.

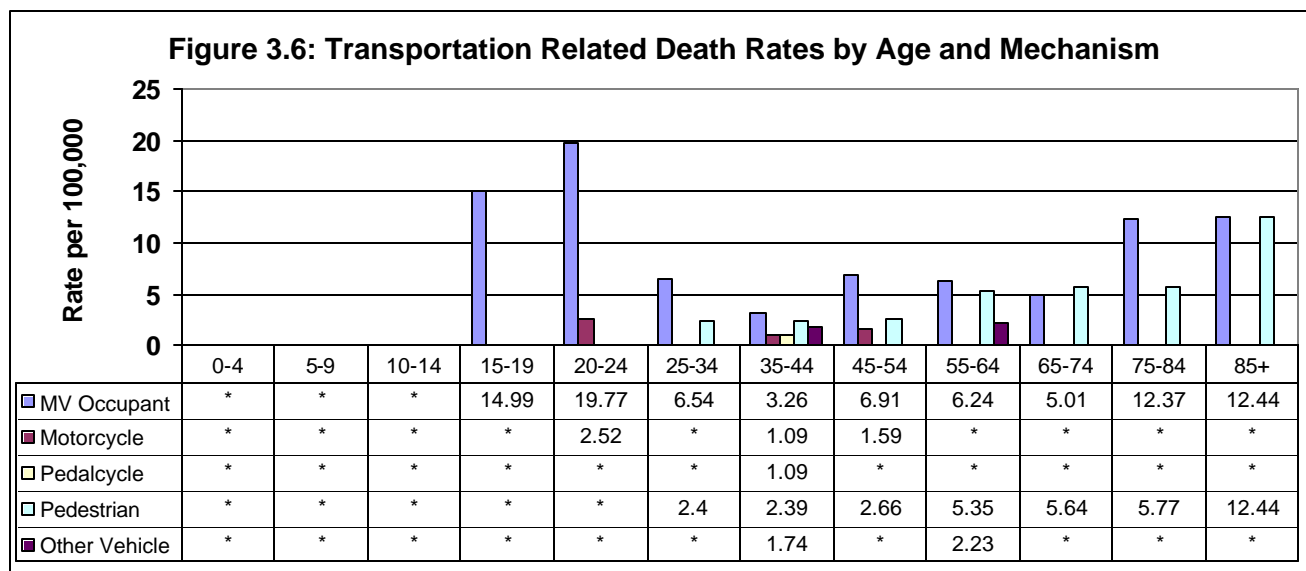
Population estimates, SANDAG

Motor vehicle occupant crashes accounted for a significantly higher rate of death and severe injury than other transportation related mechanisms of injury for most age groups. The highest rates of transportation related severe injury and deaths was found in motor vehicle occupants aged 20-24 (108 severe injuries and 20 deaths per 100,000 population).



Note: Rates not calculated on fewer than five incidents

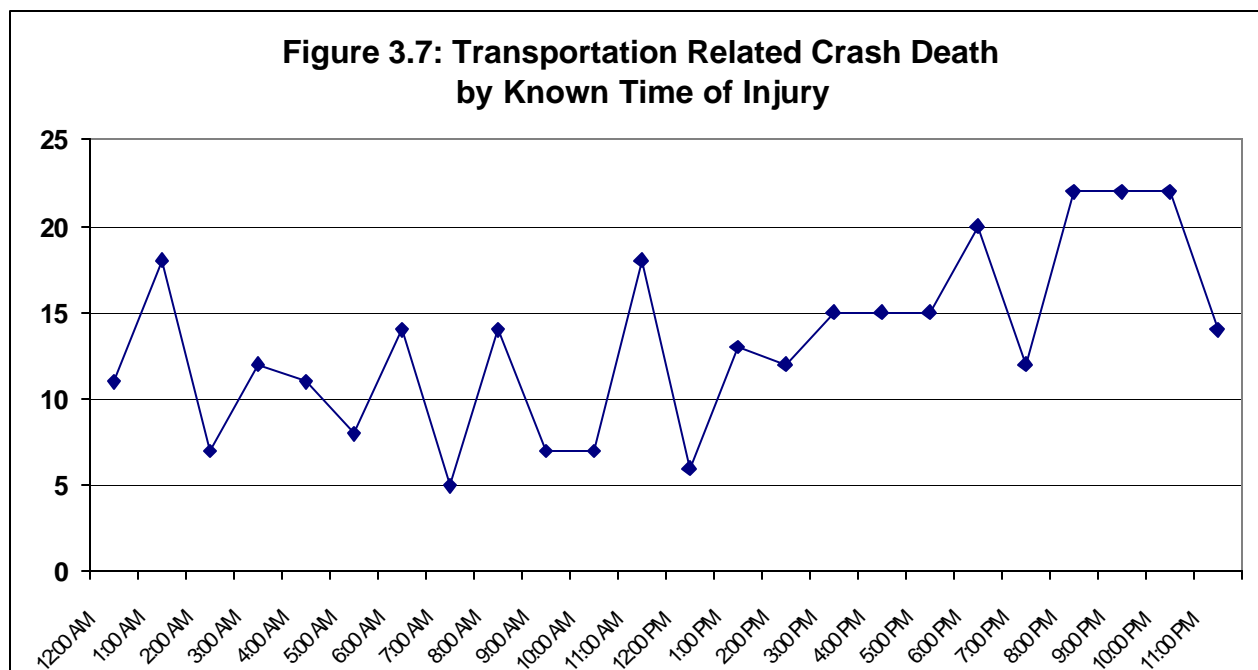
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02.
Population estimates, SANDAG



Note: Rates not calculated on fewer than five incidents

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02.
Population estimates, SANDAG

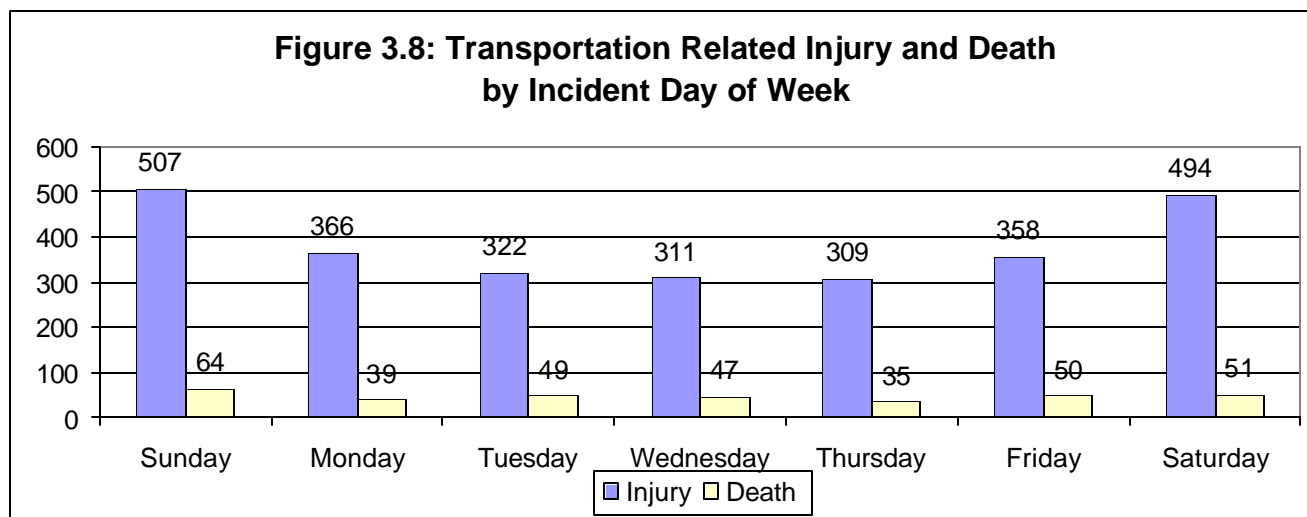
Transportation-related deaths were most likely to occur during the evening hours, with the peak hours during FY 2001/02 occurring between 8:00 and 10:00 pm. Saturdays and Sundays experienced the greatest numbers of injuries and deaths (38% of injuries, 34% of deaths).



All times are in one hour increments, for example, 6:00 - 6:59 = 6:00

There were 22 deaths with an unidentified time of injury

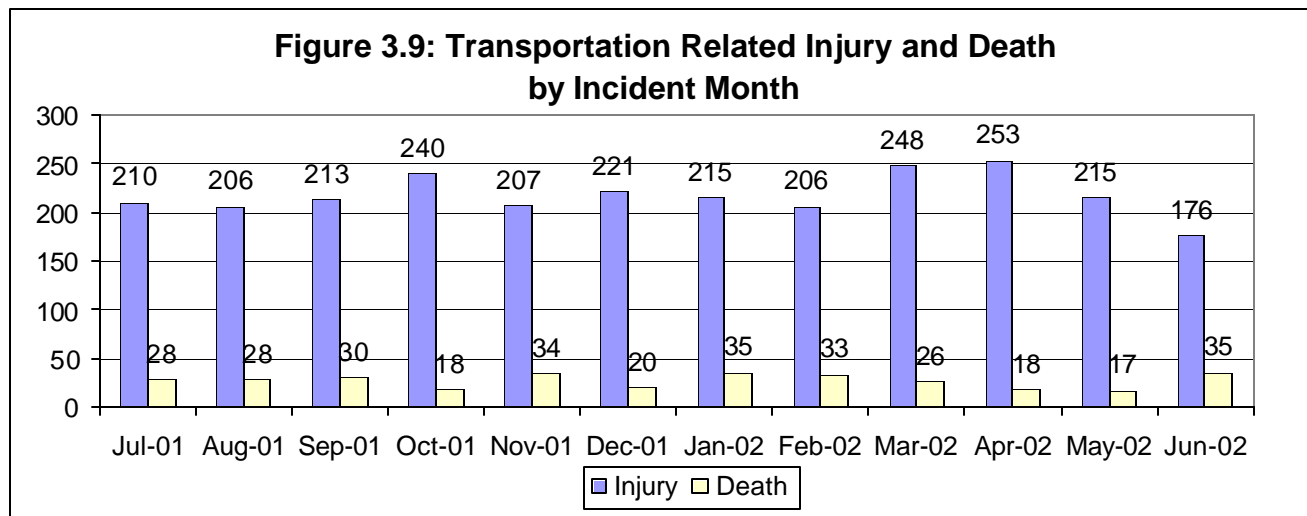
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Medical Examiner's Data, FY 2001/02



*Seven injuries and seven deaths had unspecified incident dates.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02

March and April were the peak months for transportation related severe injury during FY 2001/02, while January and June had the highest number of deaths.

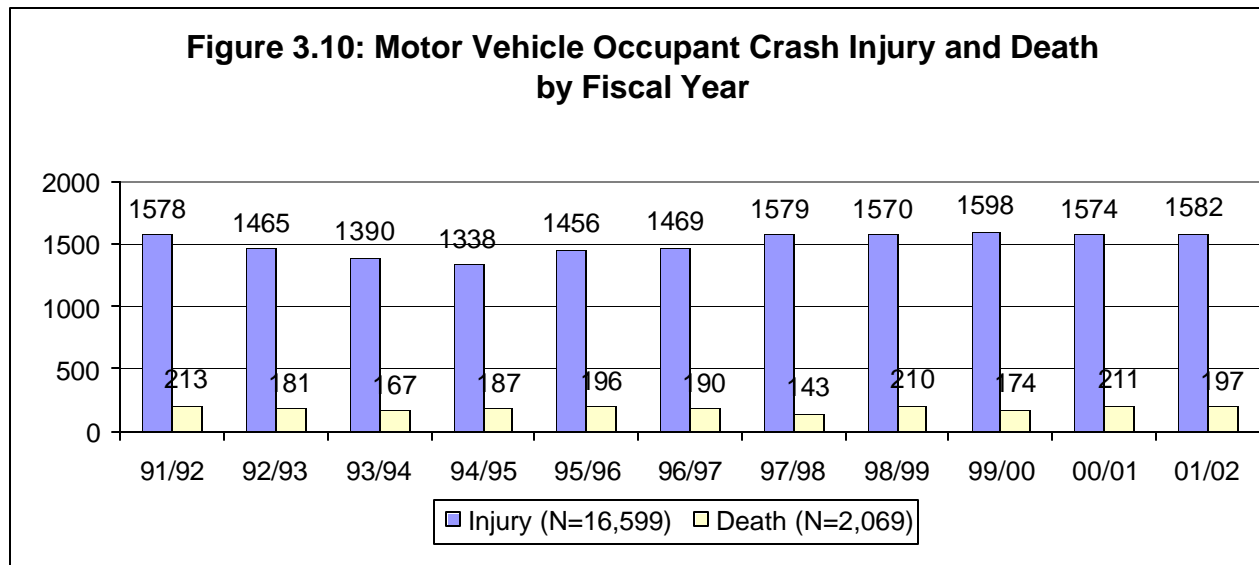


*Seven injuries and seven deaths had unspecified incident dates.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02

Motor Vehicle Occupant Crash Injuries

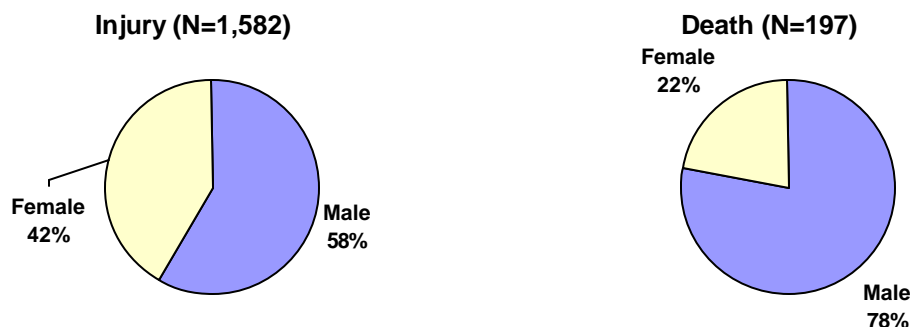
The number of motor vehicle occupant crash injuries decreased 0.5% from FY 2000/01 to 2001/02, while deaths decreased by 6.6%. Neither of these changes was statistically significant.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 1991/92–2001/02

Males accounted for 58% of injuries and 78% of deaths to motor vehicle occupants.

Figure 3.11: Motor Vehicle Occupant Crash Injury and Death by Gender



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02.

Injury and death rates overall were highest in the 20 to 24 year age group, although the highest age-and sex-specific injury rate was among 15 to 19 year old males (129 per 100,000).

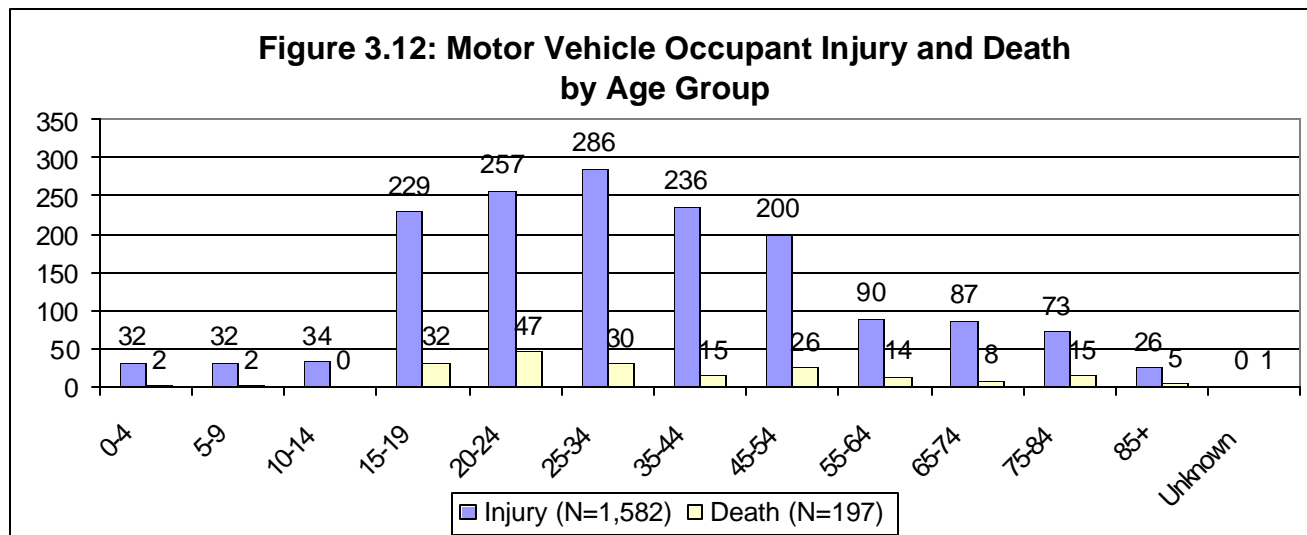
Table 3.2: Number and Rate* (per 100,000) of Motor Vehicle Occupant Injury and Death by Age Group and Gender

	Injury						Death							
	Male		Female		Total		Male		Female		Total		Overall Total	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
0-4	15	15.09	17	17.27	32	16.18	0	*	2	*	2	*	34	17.19
5-9	15	14.28	17	16.95	32	15.59	1	*	1	*	2	*	34	16.56
10-14	16	14.48	18	17.31	34	15.85	0	*	0	*	-	*	34	15.85
15-19	146	128.61	83	83.08	229	107.30	25	22.02	7	7.01	32	14.99	261	122.29
20-24	157	117.39	100	96.20	257	108.12	41	30.66	6	5.77	47	19.77	304	127.89
25-34	180	75.15	106	48.40	286	62.37	24	10.02	6	2.74	30	6.54	316	68.91
35-44	155	66.43	81	35.81	236	51.36	8	3.43	7	3.09	15	3.26	251	54.62
45-54	111	59.97	89	46.53	200	53.14	22	11.89	4	*	26	6.91	226	60.05
55-64	46	42.86	44	37.65	90	40.14	12	11.18	2	*	14	6.24	104	46.38
65-74	39	53.69	48	55.16	87	54.49	6	8.26	2	*	8	5.01	95	59.50
75-84	29	57.30	44	62.25	73	60.18	11	21.73	4	*	15	12.37	88	72.55
85+	15	108.23	11	41.76	26	64.67	2	*	3	*	5	12.44	31	77.11
Unknown	0	*	0	*	0	*	1	*	0	*	1	*	1	*
Total	924	63.09	658	45.57	1,582	54.39	153	10.45	44	3.05	197	6.77	1,779	61.17

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data; FY 2001/02; Population estimates, SANDAG.

*Rates not calculated on fewer than five incidents

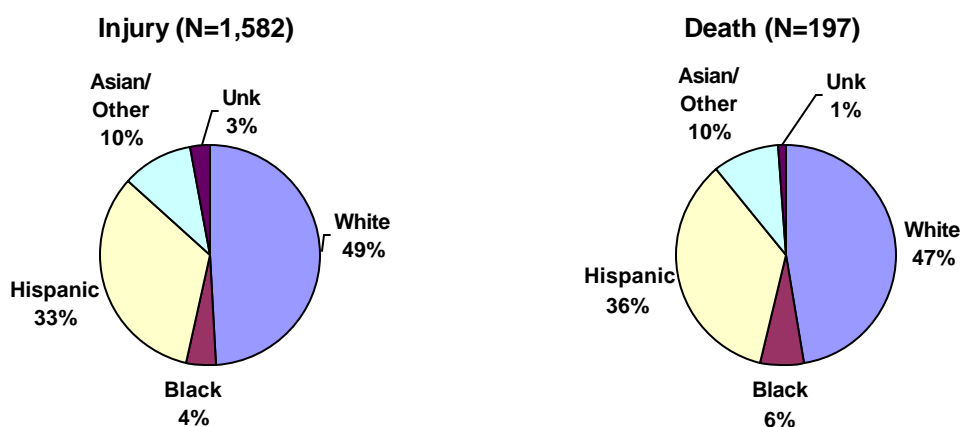
As illustrated in figure 3.12, more than half of injuries and deaths due to motor vehicle occupant (MVO) crashes are to younger adults (ages 15-44). In fact, MVO crashes were responsible for more years of potential life lost than any other cause of traumatic injury. During FY 2001/02, 64% of injuries and deaths due to MVO crashes occurred to individuals between 15 and 44 years of age.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02

Hispanics were slightly over represented among MVO crash injuries and deaths, making up 28% of the total county population, but 33% of injuries and 36% of deaths during FY 2001/02.

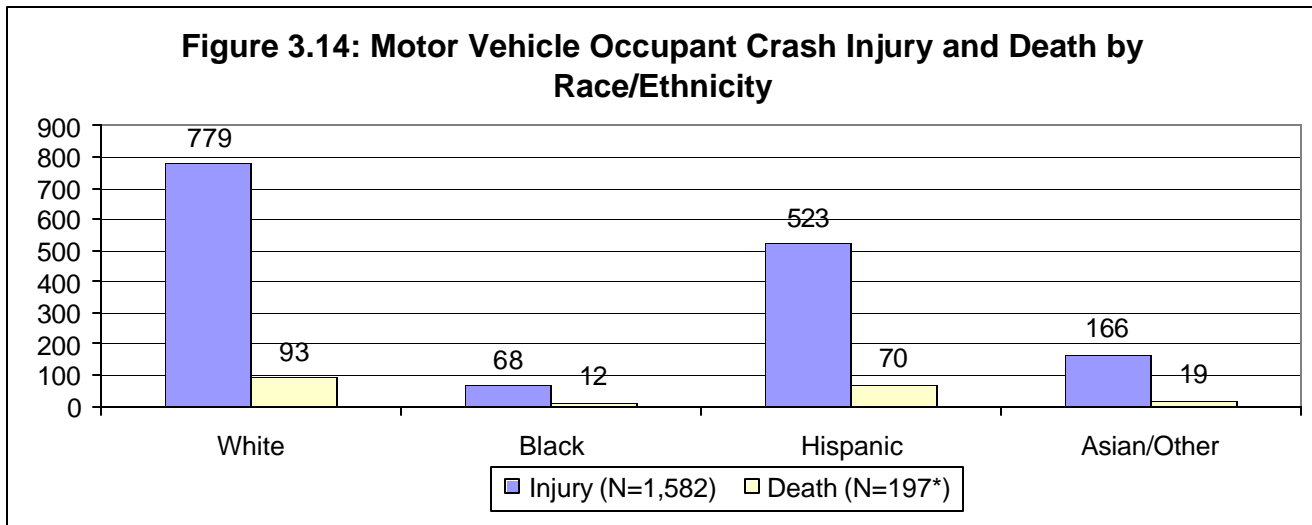
Figure 3.13: Motor Vehicle Occupant Crash Injury and Death by Race/Ethnicity



*Totals include 46 injuries and three deaths with unspecified race/ethnicity.

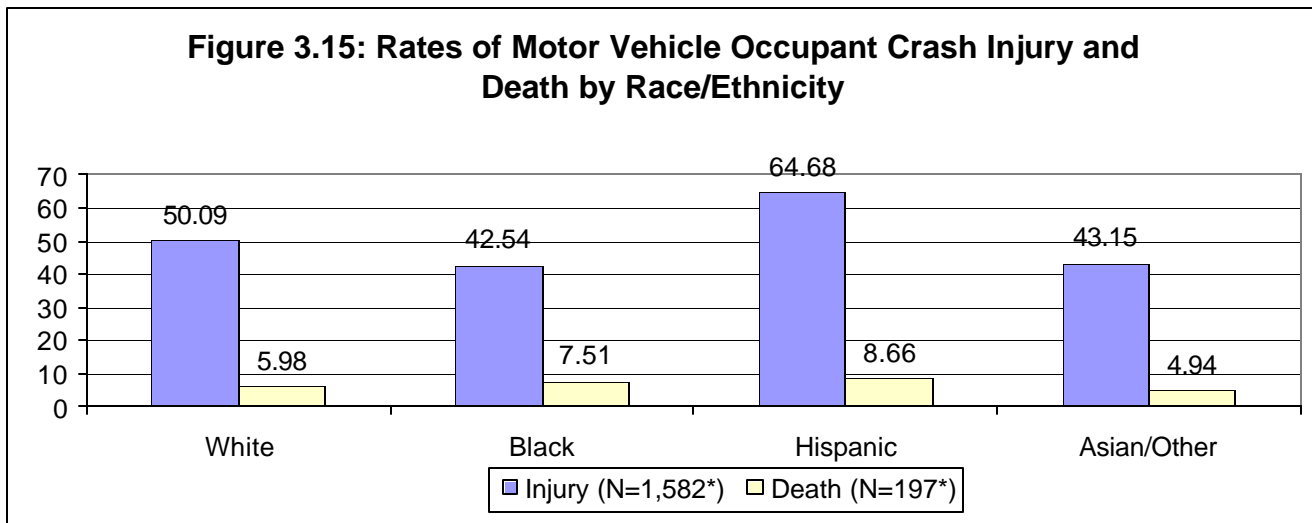
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02.

While Whites accounted for half of injuries and deaths due to MVO crashes, the highest rates of injury and death were in the Hispanic population (65 injuries and 9 deaths per 100,000).



*Totals include 46 injuries and three deaths with unspecified race/ethnicity.

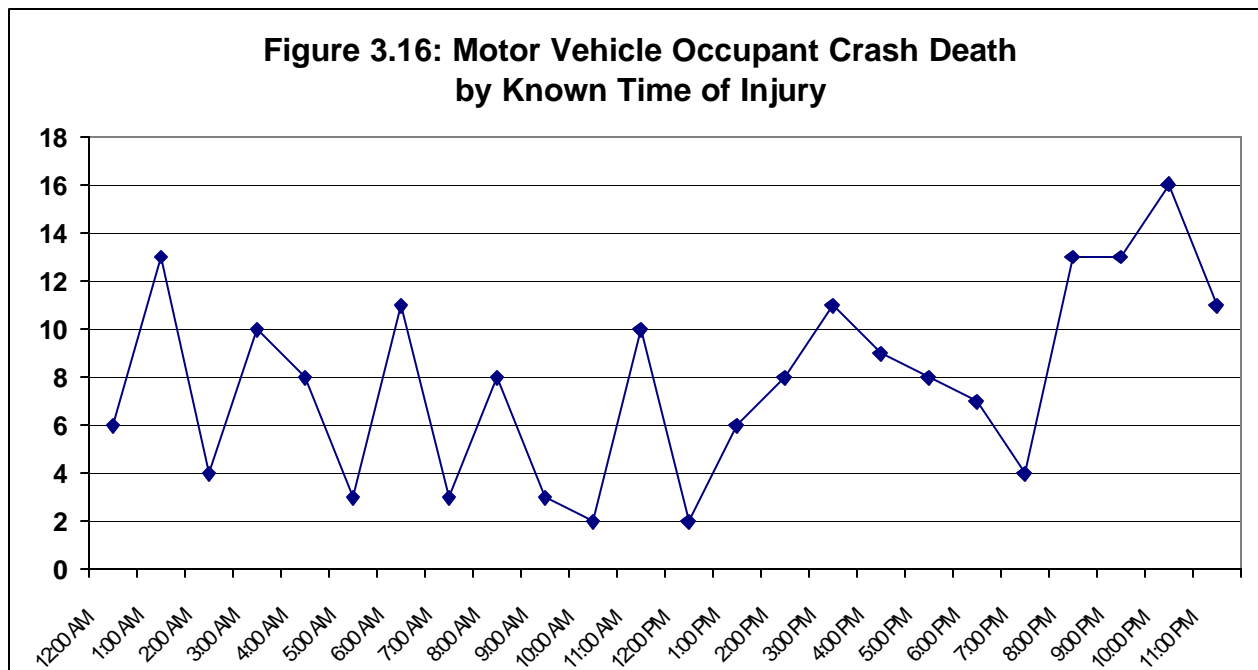
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02.



*Totals include 46 injuries and three deaths with unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02.

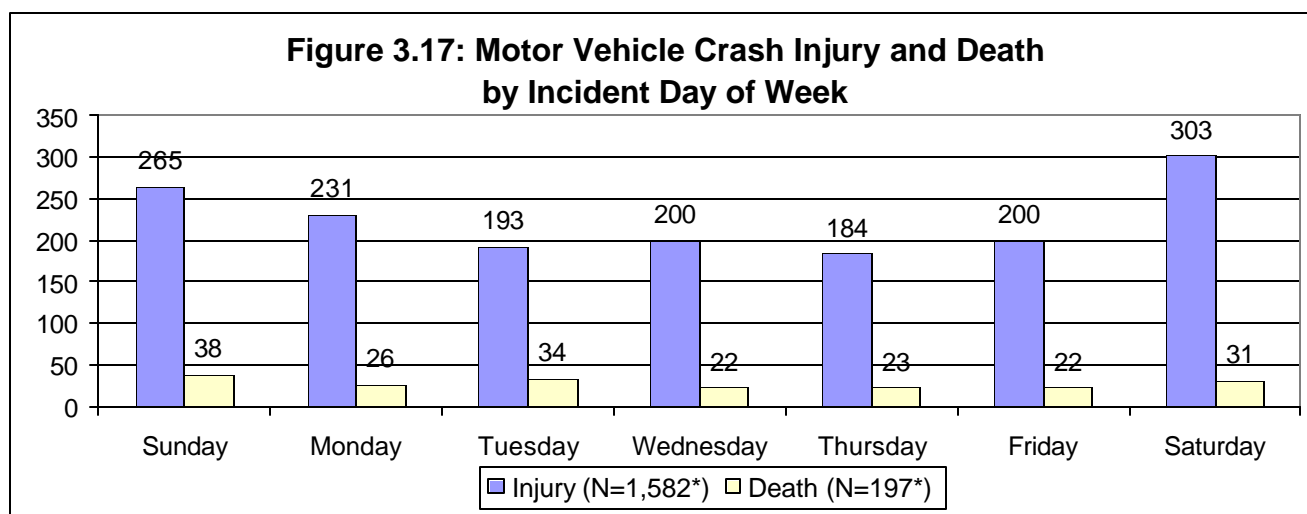
The peak time for fatal MVO crashes was between 10:00 and 10:59 p.m., with 28% of fatal crashes occurring between 8:00 p.m. and midnight. Thirty-six percent of injuries and 35% of deaths occurred on weekends (Saturday and Sunday). April was the month with the most injuries while July had the fewest. Deaths peaked in June and were lowest in May.



All times are in one hour increments, for example, 6:00 - 6:59 = 6:00

There were eight deaths with an unidentified time of injury

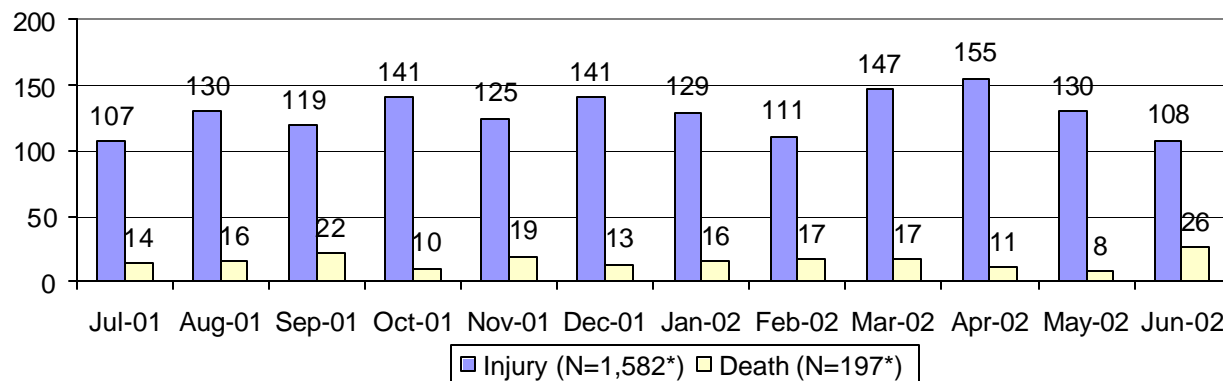
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Medical Examiner's Data, FY 2001/02



*Totals include six injuries and one death with unspecified incident dates.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02

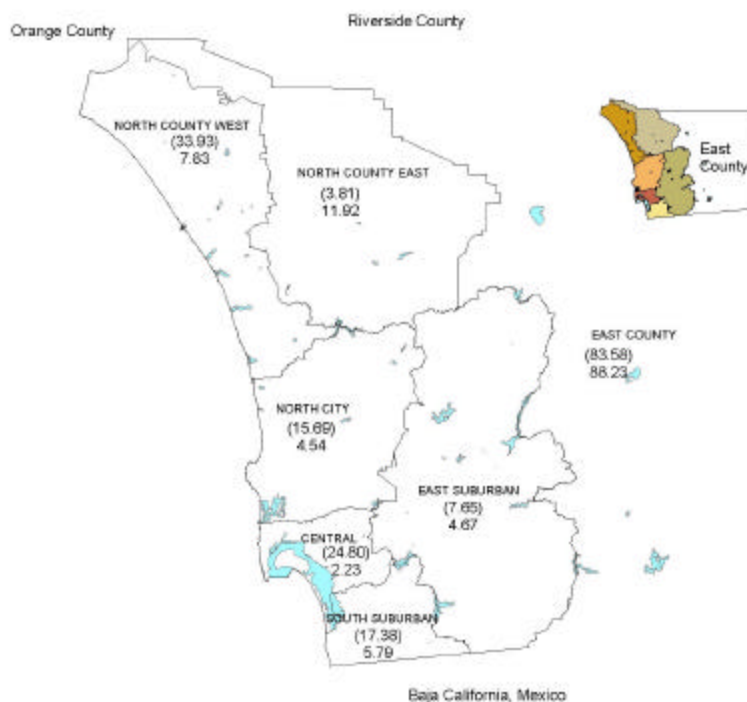
**Figure 3.18: Motor Vehicle Occupant Crash Injury and Death
by Incident Month**



*Totals include six injuries and one death with unspecified incident dates, and 33 injuries and seven deaths that occurred outside FY 2001/02.
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02

Incidence and rates of injury by subregional areas (SRA) and Major Statistical Areas (MSA) were calculated from the zip code where the incident took place. The incident zip code was available for 33% of non-fatal MVO injuries and for 92% of deaths from MVO crashes. The highest rates of both injury and death from MVO crashes were in the sparsely populated East County region (84 injuries and 88 deaths per 100,000). Population estimates for each of the MSAs can be found in Appendix B.

Figure 3.19: Motor Vehicle Occupant Injury and Death Rates per 100,000 by San Diego Major Statistical Area



Legend

Rates displayed in parentheses () reflect injuries while those not in parentheses indicate deaths.

*Rates not calculated on fewer than five incidents.

Please note there were 1,063 injuries and 15 deaths with an unknown incident zip code.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data: FY 2001/02; Population estimates, SANDAG.

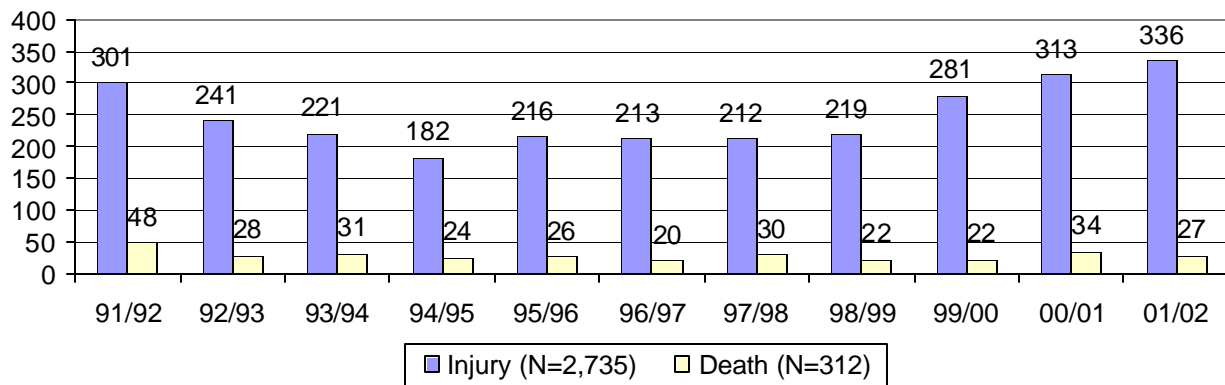
Motorcycle Crash Injuries

Motorcycle crash injuries did not account for a large percentage of overall traumatic injury deaths or years of potential life lost. On average, for every trauma death due to a motorcycle crash during FY 2001/02, there were over 12 more severe injuries from such a crash.

California enacted its mandatory helmet law for all motorcycle riders in 1991. From FY 1991/92 to 1994/95, the number of injuries dropped 40%. Since FY 1994/95, the annual number of injuries has increased by 45%, although the number of deaths from motorcycle crashes has remained low.

Motorcycle injuries increased 7% from FY 2000/01 to FY 2001/02, while the number of deaths fell from 34 to 27.

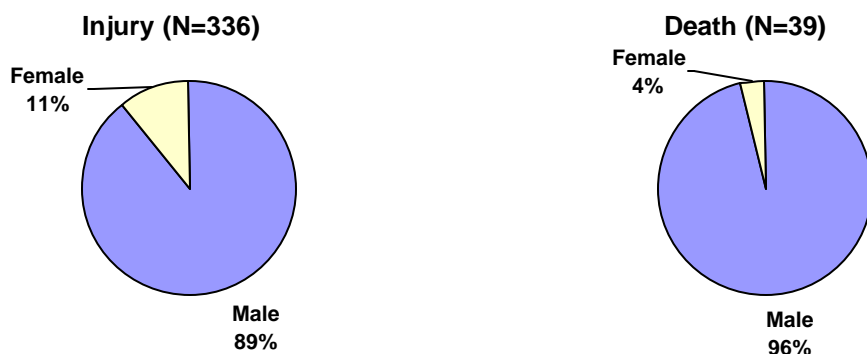
**Figure 3.20: Motorcycle Crash Injury and Death
by Fiscal Year**



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 1991/92–2001/02

As with all motor vehicle related crashes, the majority of those who were injured or killed in motorcycle crashes during FY 2001/02 were male: 89% of injuries and 96% of deaths. The highest rate of injury was in males 25-34 years of age (35 per 100,000).

Figure 3.21: Motorcycle Crash Injury and Death by Gender



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02.

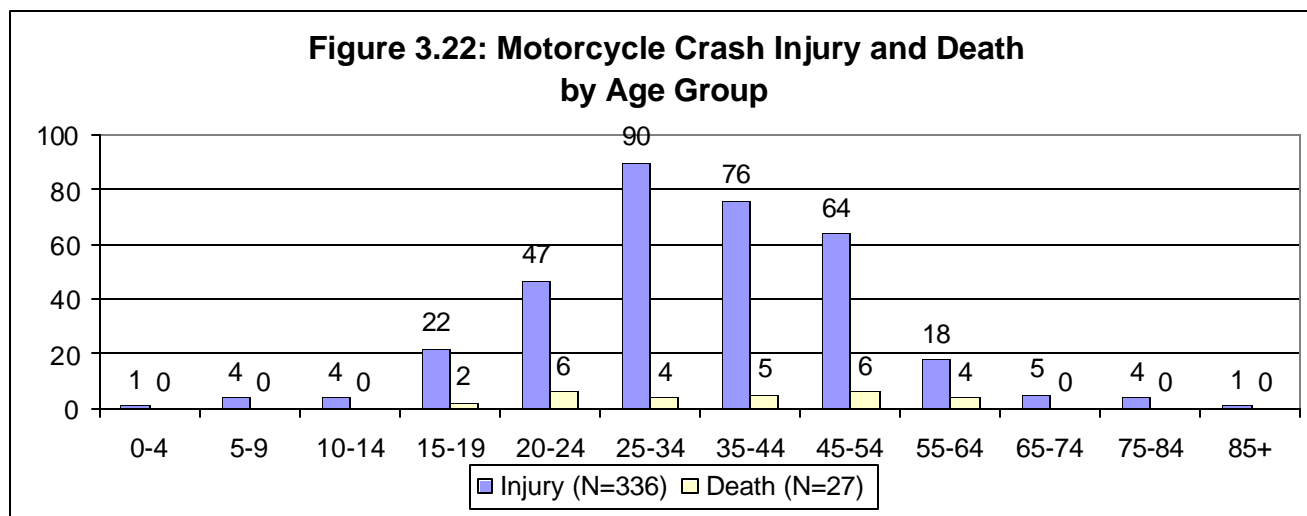
Table 3.3: Number and Rate* (per 100,000) of Motorcycle Injury and Death by Age Group and Gender

	Injury						Death							
	Male		Female		Total		Male		Female		Total		Overall Total	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
0-4	1	*	0	*	1	*	0	*	0	*	0	*	1	*
5-9	4	*	0	*	4	*	0	*	0	*	0	*	4	*
10-14	4	*	0	*	4	*	0	*	0	*	0	*	4	*
15-19	18	15.86	4	*	22	10.31	2	*	0	*	2	*	24	11.25
20-24	42	31.40	5	4.81	47	19.77	6	4.49	0	*	6	2.52	53	22.30
25-34	84	35.07	6	2.74	90	19.63	4	*	0	*	4	*	94	20.50
35-44	68	29.15	8	3.54	76	16.54	5	2.14	0	*	5	1.09	81	17.63
45-54	56	30.25	8	4.18	64	17.00	5	2.70	1	*	6	1.59	70	18.60
55-64	15	13.98	3	*	18	8.03	4	*	0	*	4	*	22	9.81
65-74	5	6.88	0	*	5	3.13	0	*	0	*	0	*	5	3.13
75-84	3	*	1	*	4	*	0	*	0	*	0	*	4	*
85+	0		1		1		0		0		0		1	
Total	300	20.48	36	2.49	336	11.55	26	1.78	1	*	27	0.93	363	12.48

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data; FY 2001/02; Population estimates, SANDAG.

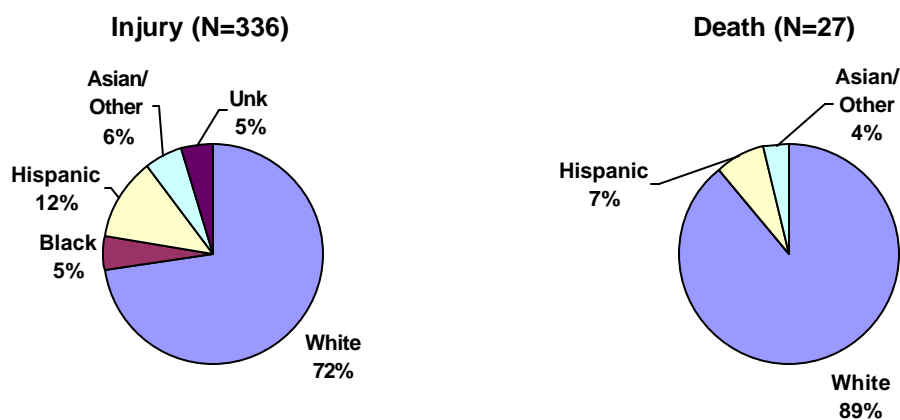
*Rates not calculated on fewer than five incidents

Those who were injured in motorcycle crashes were primarily younger adults, with 27% between 25 and 34 years of age.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02

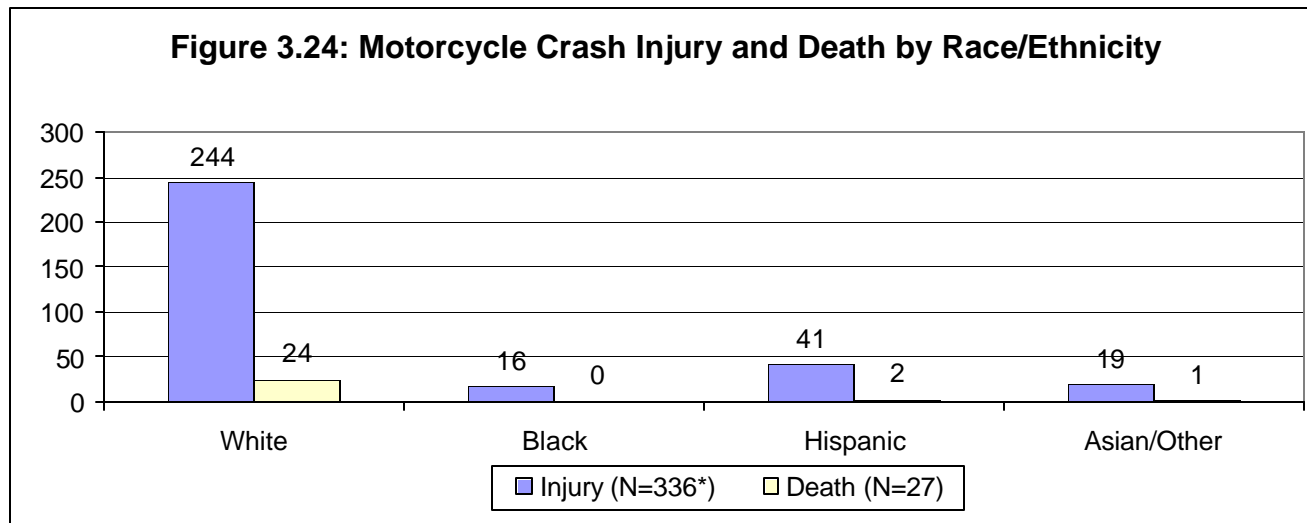
Figure 3.23: Motorcycle Crash Injury and Death by Race/Ethnicity



*Totals include 16 injuries of unspecified race/ethnicity.

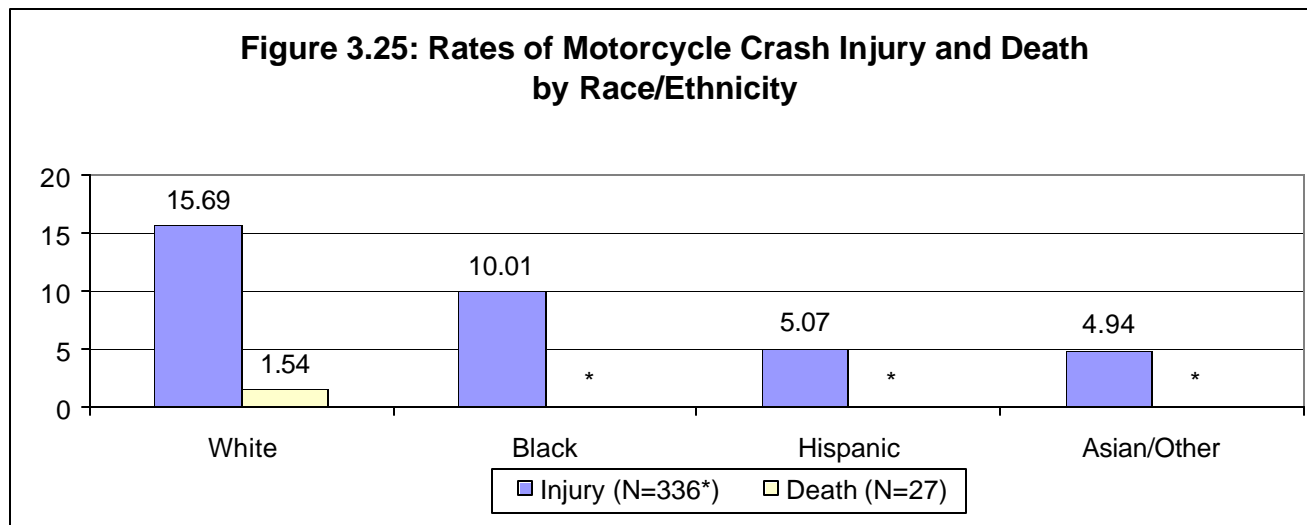
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02.

During FY 2001/02, the White population had the highest incidence and rate of deaths and severe injuries due to motorcycle crashes. Seventy-two percent of severe injuries and 89% of deaths occurred in the White population, which made up about 54% of the total county population.



*Totals include 16 injuries with unspecified race/ethnicity.

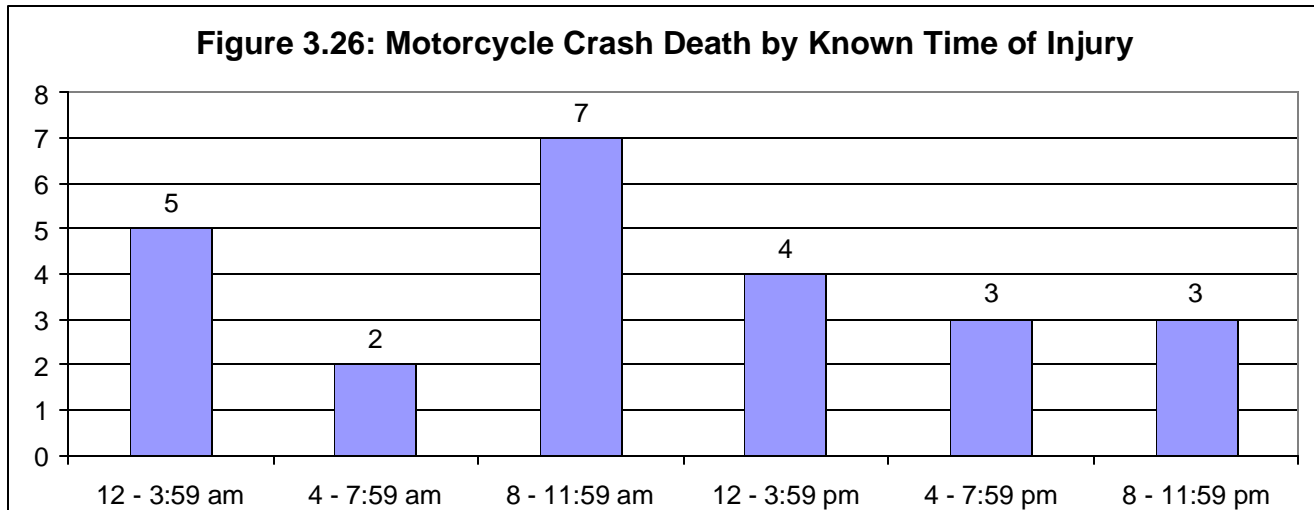
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02.



*Totals include 16 injuries with unspecified race/ethnicity.

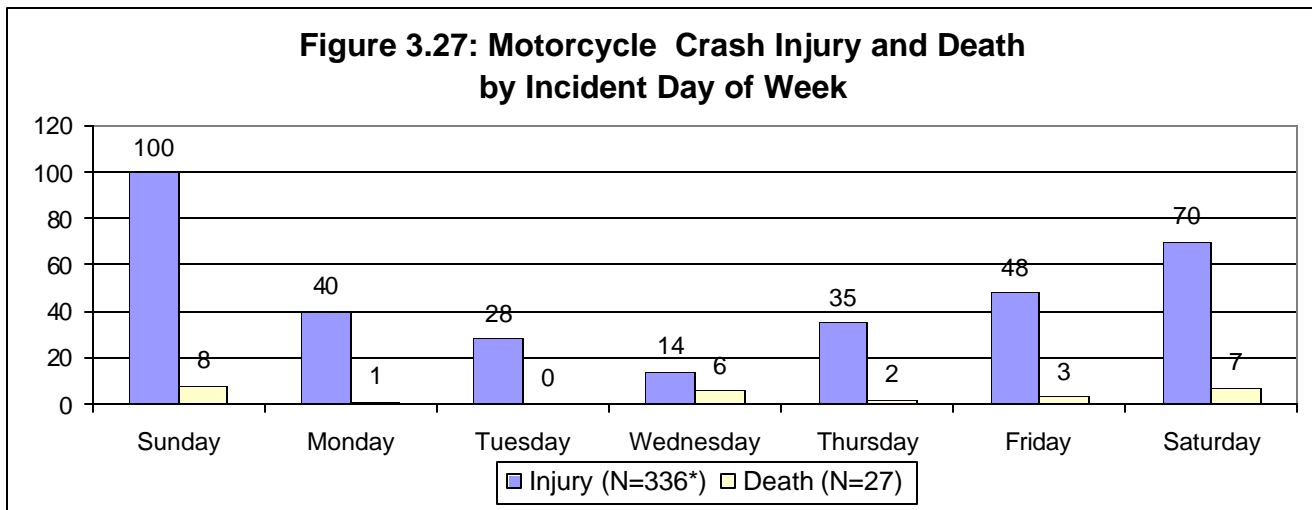
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02.

The 24 motorcycle crash deaths for which the time of the crash was known were fairly evenly spread by time of day, though half of injuries and 56% of deaths occurred on Saturdays and Sundays. September 2001 had the highest number of motorcycle crash injuries.



There were three deaths with an unidentified time of injury

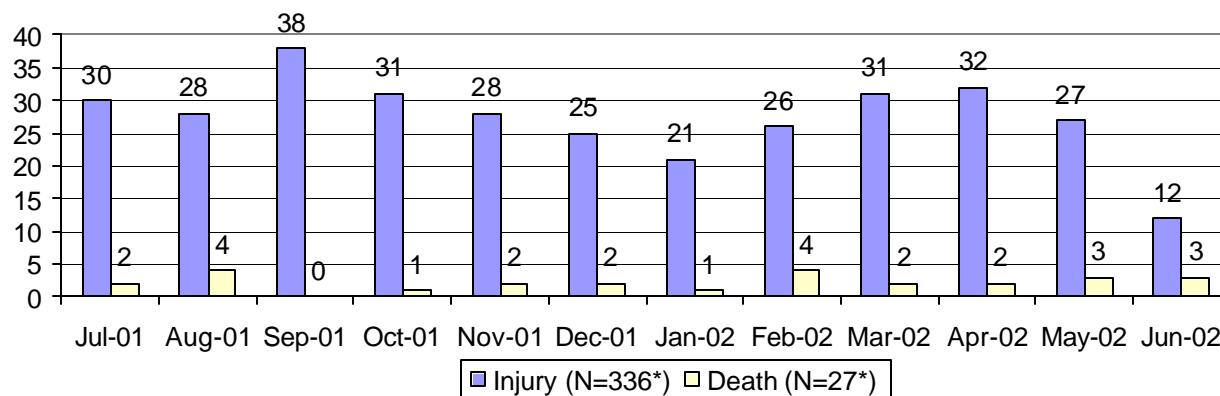
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Medical Examiner's Data, FY 2001/02



*Totals include one injury with unspecified incident date.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02

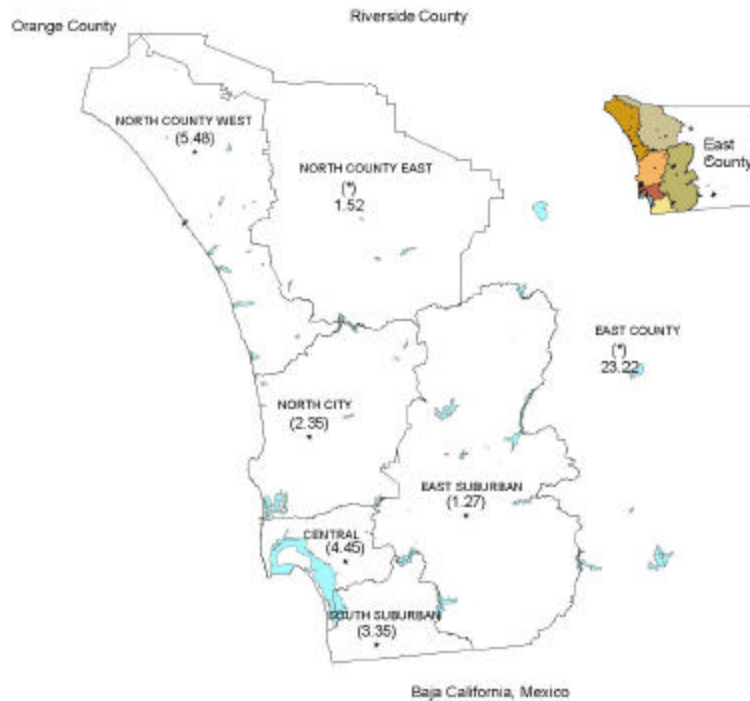
**Figure 3.28: Motorcycle Crash Injury and Death
by Incident Month**



*Totals include one injury with unspecified incident date, and six injuries and one death that did not occur within FY 2001/02.
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02

Incidence and rates of injury by subregional areas (SRA) and Major Statistical Areas (MSA) were calculated from the zip code where the incident took place. The incident zip code was available for 26% of non-fatal motorcycle injuries and for 89% of deaths from motorcycle crashes. The rate of injury due to motorcycle crashes in the East County MSA was more than four times higher than the next highest MSA rate. Population estimates for each of the MSAs can be found in Appendix B.

Figure 3.29: Motorcycle Injury and Death Rates per 100,000 by San Diego Major Statistical Area



Legend

Rates displayed in parentheses () reflect injuries while those not in parentheses indicate deaths.

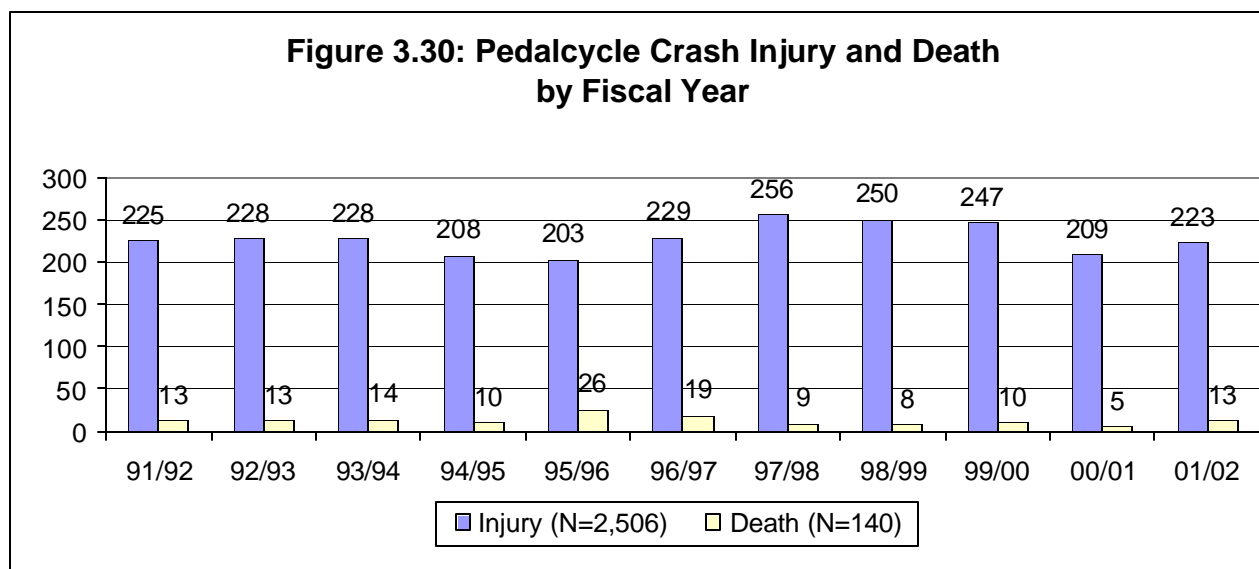
*Rates not calculated on fewer than five incidents.

Please note there were 250 injuries and three deaths with unknown incident zip code.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02. Population estimates, SANDAG.

Pedalcycle Crash Injuries

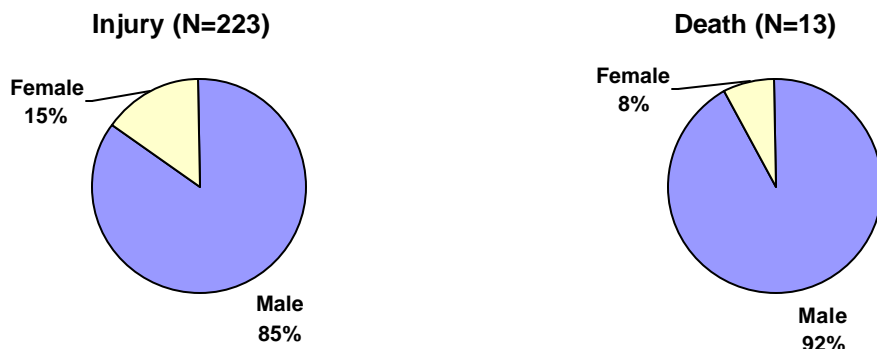
Pedalcyclists were much more likely to sustain a severe rather than a fatal injury during a pedalcycle crash. In FY 2001/02, there were 13 deaths due to pedalcycle crashes. On average, for every death resulting from a pedalcycle crash, there were 17 more severe injuries. The number of pedalcycle crash injuries increased 7% and the number of deaths increased 1.6 times from the previous fiscal year. Although the increase in deaths from the previous year seems large, the number of deaths during FY 2001/02 is the same as the average annual number from FY 1991/92 through 2001/02.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 1991/92 –2001/02

Injuries and deaths related to pedalcycle crashes were much more likely to happen to males than females. The highest age and sex-specific injury rate was in 10 to 14 year old boys (33 per 100,000).

Figure 3.31: Pedalcycle Crash Injury and Death by Gender



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02.

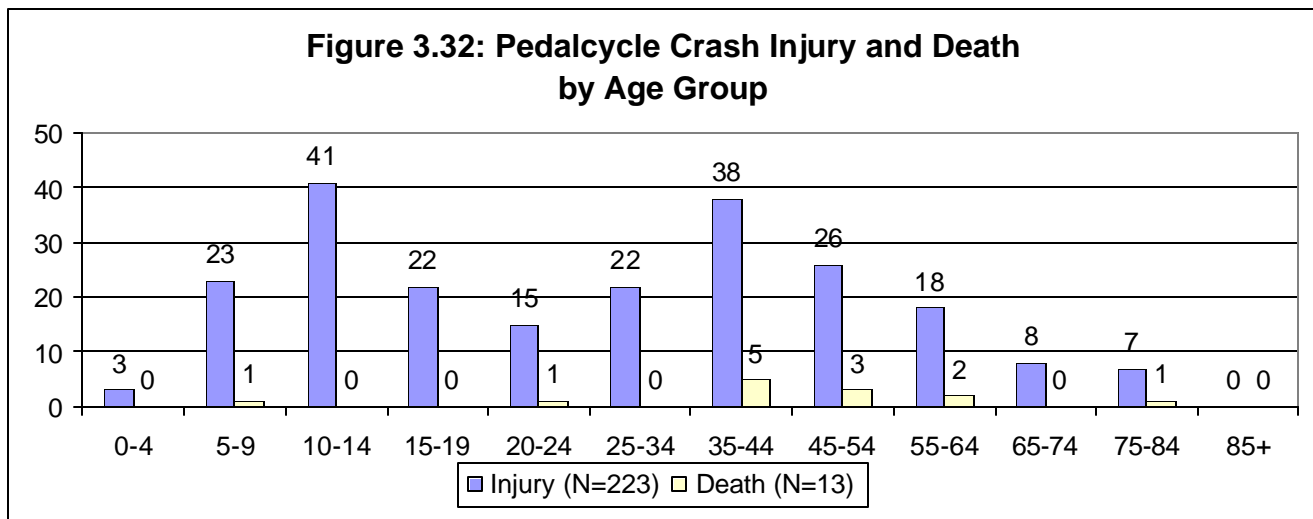
Table 3.4: Number and Rate* (per 100,000) of Pedalcycle Injury and Death by Age Group and Gender

	Injury						Death							
	Male		Female		Total		Male		Female		Total		Overall Total	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
0-4	3	*	0	*	3	*	0	*	0	*	0	*	3	*
5-9	18	17.14	5	4.99	23	11.20	1	*	0	*	1	*	24	11.69
10-14	36	32.58	5	4.81	41	19.11	0	*	0	*	0	*	41	19.11
15-19	19	16.74	3	*	22	10.31	0	*	0	*	0	*	22	10.31
20-24	15	11.22	0	*	15	6.31	1	*	0	*	1	*	16	6.73
25-34	15	6.26	7	3.20	22	4.80	0	*	0	*	0	*	22	4.80
35-44	33	14.14	5	2.21	38	8.27	4	*	1	*	5	1.09	43	9.36
45-54	21	11.35	5	2.61	26	6.91	3	*	0	*	3	*	29	7.71
55-64	15	13.98	3	*	18	8.03	2	*	0	*	2	*	20	8.92
65-74	7	9.64	1	*	8	5.01	0	*	0	*	0	*	8	5.01
75-85	7	13.83	0	*	7	5.77	1	*	0	*	1	*	8	6.60
85+	0	*	0		0		0	*	0		0		0	
Total	189	12.90	34	2.35	223	7.67	12	0.82	0*		13	0.45	236	8.11

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data; FY 2001/02; Population estimates, SANDAG.

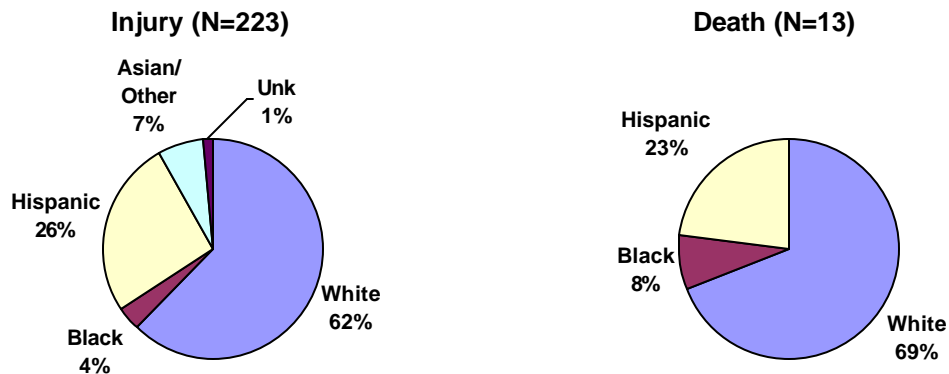
*Rates not calculated on fewer than five incidents

While the highest injury rates were seen in boys between 10 and 14 years of age, 11 of the 13 people who died in pedalcycle crashes (85%) were 35 years of age or older.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02

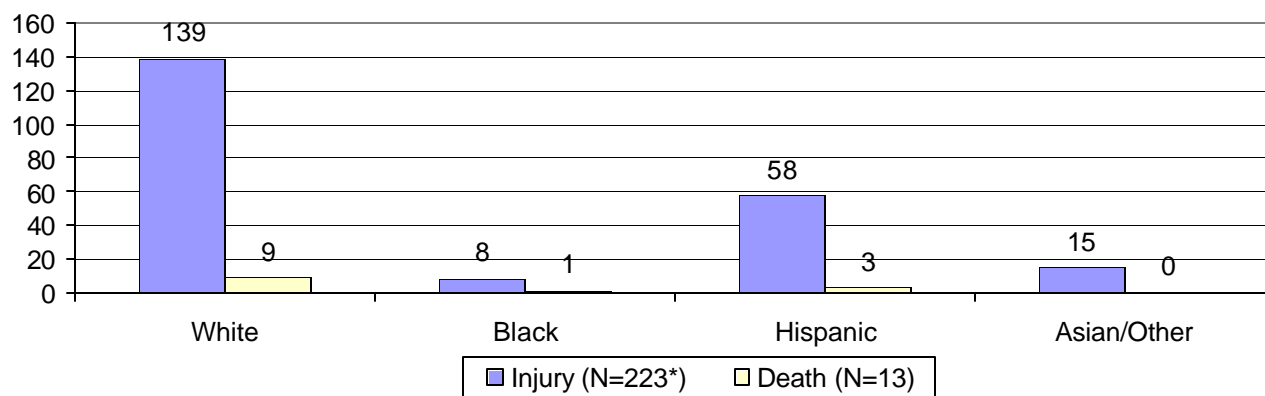
Figure 3.33: Pedalcycle Crash Injury and Death by Race/Ethnicity



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02.

The rate of injury and death from pedalcycle crashes was slightly higher among the White population than other racial groups.

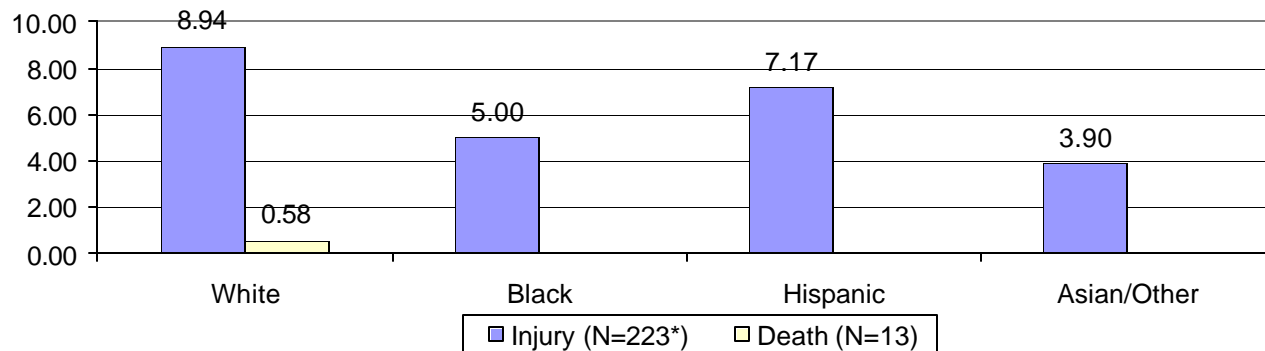
Figure 3.34: Pedalcycle Crash Injury and Death by Race/Ethnicity



*Totals include three injuries with unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02.

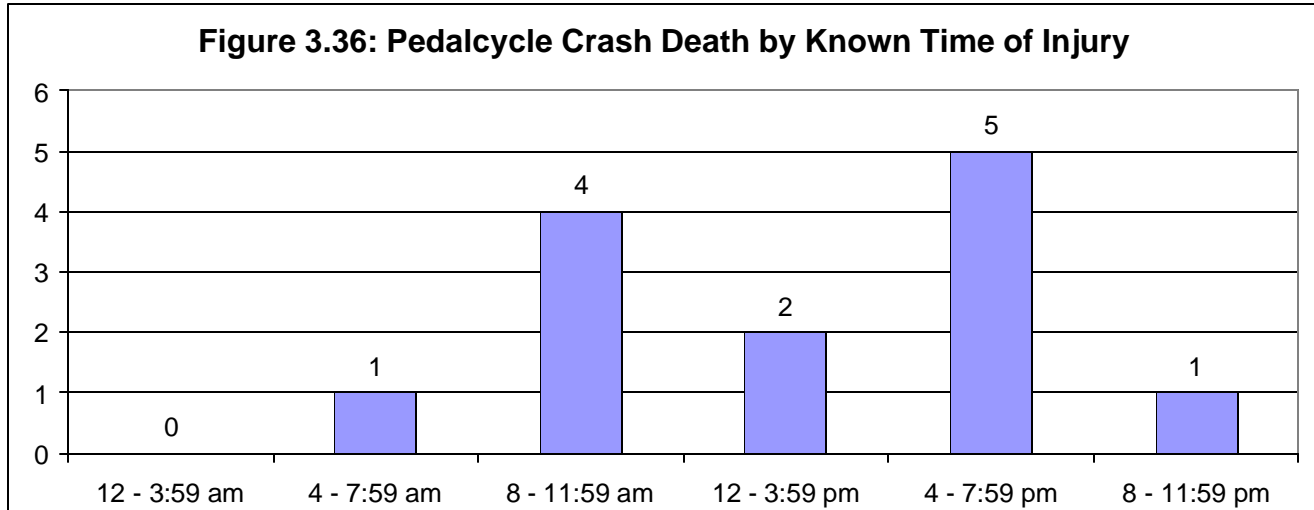
Figure 3.35: Rates of Pedalcycle Crash Injury and Death by Race/Ethnicity



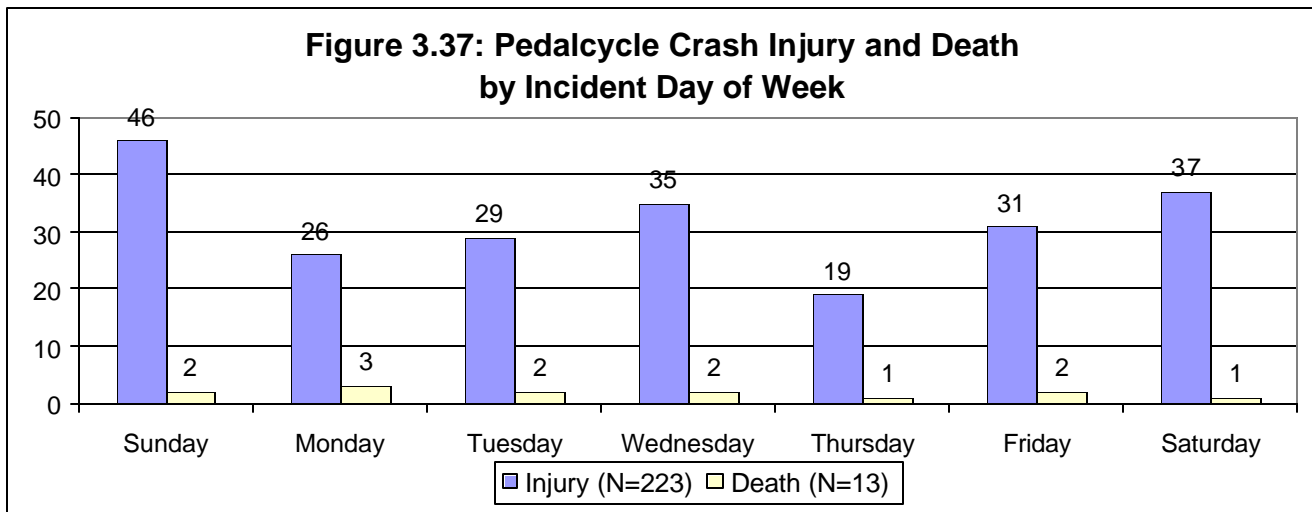
*Totals include three injuries with unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02.

Eleven of the 13 deaths resulting from pedalcycle crashes occurred between 8:00 a.m. and 8:00 p.m. Thirty-seven percent of severe injuries happened during weekends. The months with the greatest number of pedalcycle crash injuries were February and April.

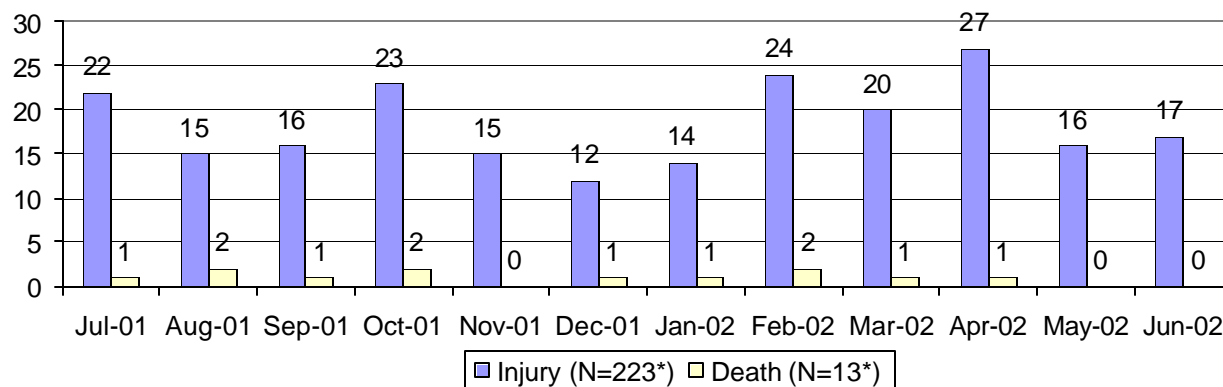


Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Medical Examiner's Data, FY 2001/02



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02

**Figure 3.38: Pedalcycle Crash Injury and Death
by Incident Month**

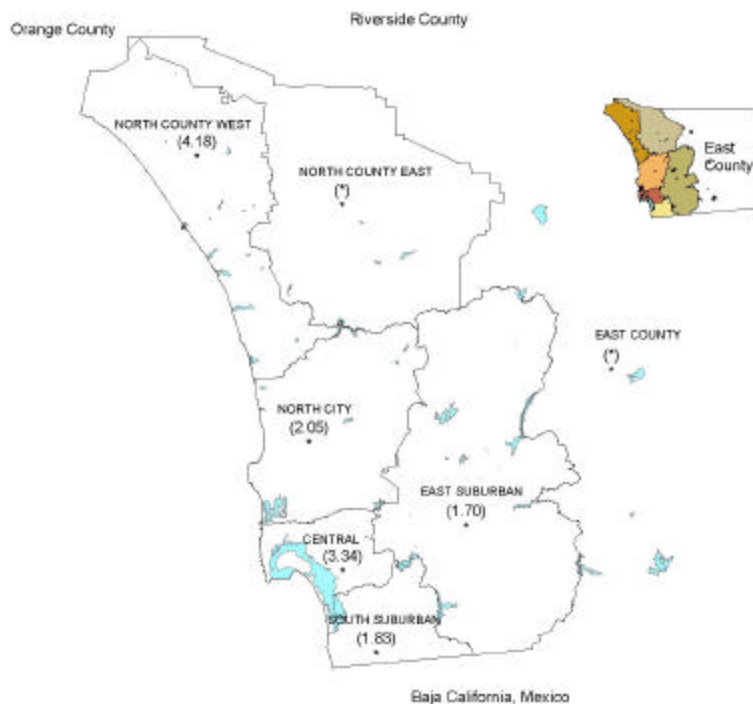


*Totals include two injuries and one death that did not occur within FY 2001/02.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02

Incidence and rates of injury by subregional areas (SRA) and Major Statistical Areas (MSA) were calculated from the zip code where the incident took place. The incident zip code was available for 31% of non-fatal pedalcycle injuries and for 100% of deaths from pedalcycle crashes. The North County West MSA had the highest rate of pedalcycle injury (4.18 per 100,000). Numbers of deaths were too low to calculate rates for any MSA. Population estimates for each of the MSAs can be found in Appendix B.

Figure 3.39: Pedalcycle Injury and Death Rates per 100,000 by San Diego Major Statistical Area



Legend

Rates displayed in parentheses () reflect injuries while those not in parentheses indicate deaths.

*Rates not calculated on fewer than five incidents.

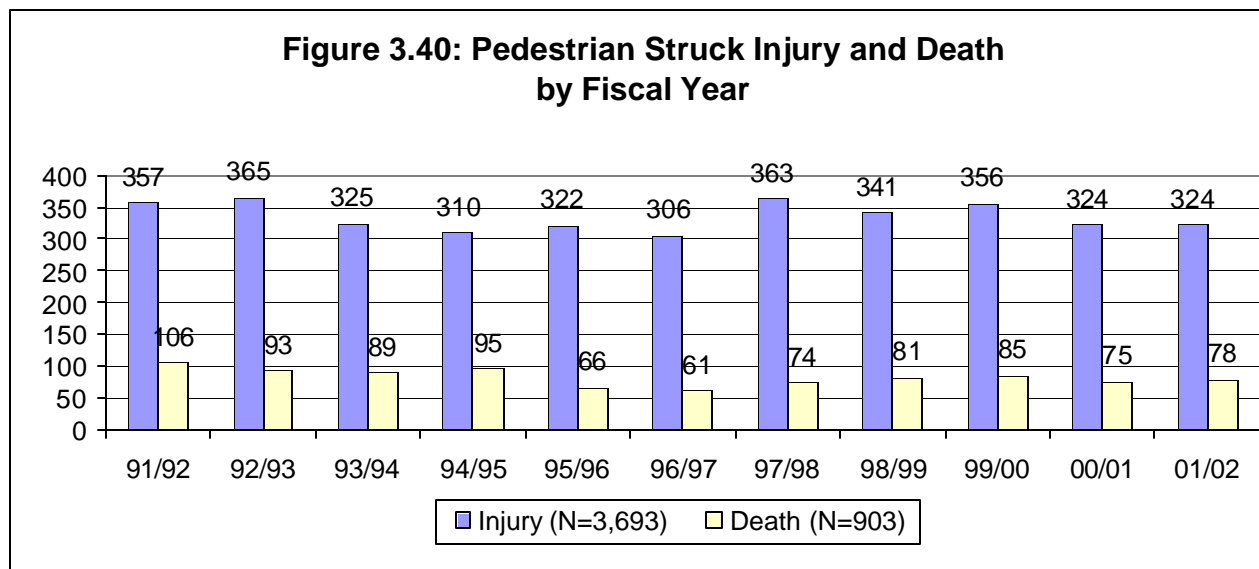
Please note there were 153 injuries with an unknown incident zip code.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02. Population estimates, SANDAG.

Pedestrian Injuries

Pedestrian injuries accounted for 9% of trauma deaths and 9% of years of potential life lost due to trauma for FY 2001/02. For every death resulting from a pedestrian being struck by a motor vehicle, four others were severely injured.

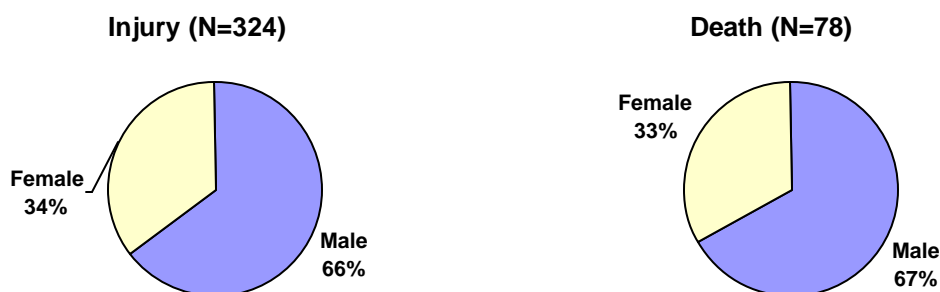
The number of injuries and deaths due to pedestrian crashes nearly the same from FY 2000/01 to 2001/02.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 1991/92–2001/02

As with other transportation related injuries, males had a higher rate of death and severe injury as pedestrians compared to females for nearly all age groups. Males accounted for 66% of severe injuries and 67% of deaths. The highest rate of injury was in males age 0-4 years (20.12 per 100,000).

Figure 3.41: Pedestrian Struck Injury and Death by Gender



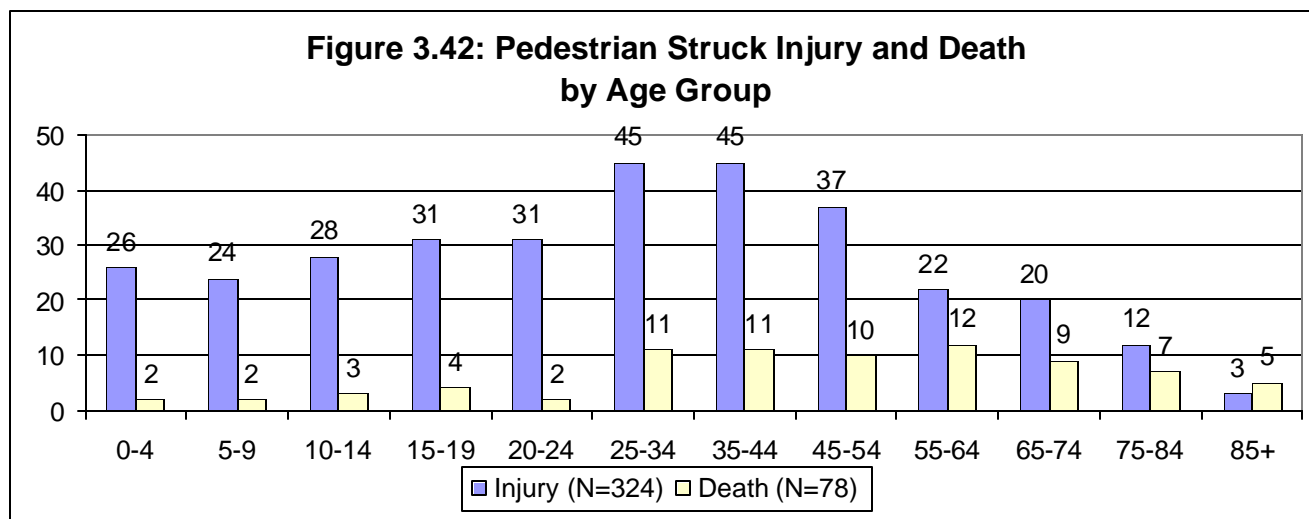
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02.

Table 3.5: Number and Rate* (per 100,000) of Pedestrian Injury and Death by Age Group and Gender

	Injury						Death							
	Male		Female		Total		Male		Female		Total		Overall Total	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
0-4	20	20.12	6	6.10	26	13.14	1	*	1	*	2	*	33	16.68
5-9	17	16.19	7	6.98	24	11.69	2	*	0	*	2	*	31	15.10
10-14	19	17.20	9	8.65	28	13.05	3	*	0	*	3	*	23	10.72
15-19	20	17.62	11	11.01	31	14.52	3	*	1	*	4	*	28	13.12
20-24	24	17.94	7	6.73	31	13.04	2	*	0	*	2	*	26	10.94
25-34	30	12.52	15	6.85	45	9.81	7	2.92	4	*	11	2.40	49	10.69
35-44	30	12.86	15	6.63	45	9.79	8	3.43	3	*	11	2.39	56	12.19
45-54	23	12.43	14	7.32	37	9.83	7	3.78	3	*	10	2.66	60	15.94
55-64	13	12.11	9	7.70	22	9.81	8	7.45	4	*	12	5.35	30	13.38
65-74	9	12.39	11	12.64	20	12.53	5	6.88	4	*	9	5.64	28	17.54
75-84	7	13.83	5	7.07	12	9.89	2	*	5	7.07	7	5.77	33	27.21
85+	2	*	1	*	3	*	4	*	1	*	5	12.44	5	12.44
Total	214	14.61	110	7.62	324	11.14	52	3.55	26	1.80	78	2.68	402	13.82

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data; FY 2001/02; Population estimates, SANDAG.

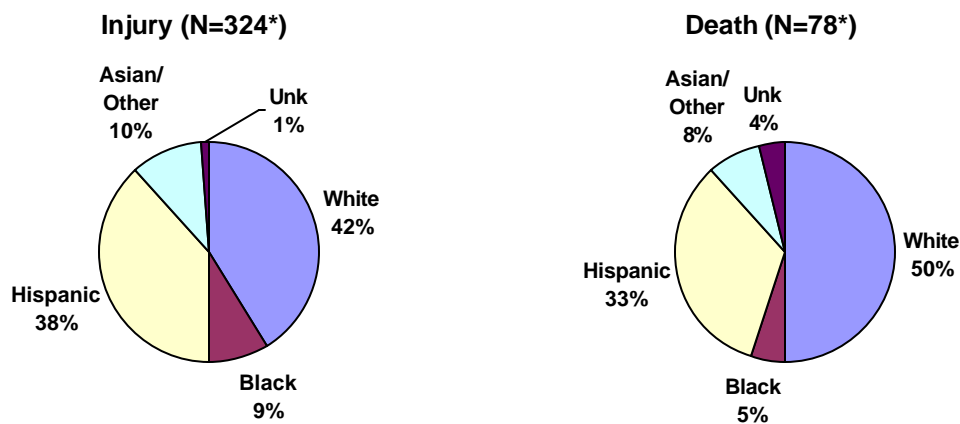
*Rates not calculated on fewer than five incidents



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02

The Black and Hispanic populations stood out as being more likely to be injured or killed as pedestrians. Hispanics comprised 28% of the county population, but 38% of pedestrian injuries and 33% of deaths. Blacks, with five percent of the county population, accounted for 9% of injuries and 5% of deaths from pedestrian crashes.

Figure 3.43: Pedestrian Struck Injury and Death by Race/Ethnicity

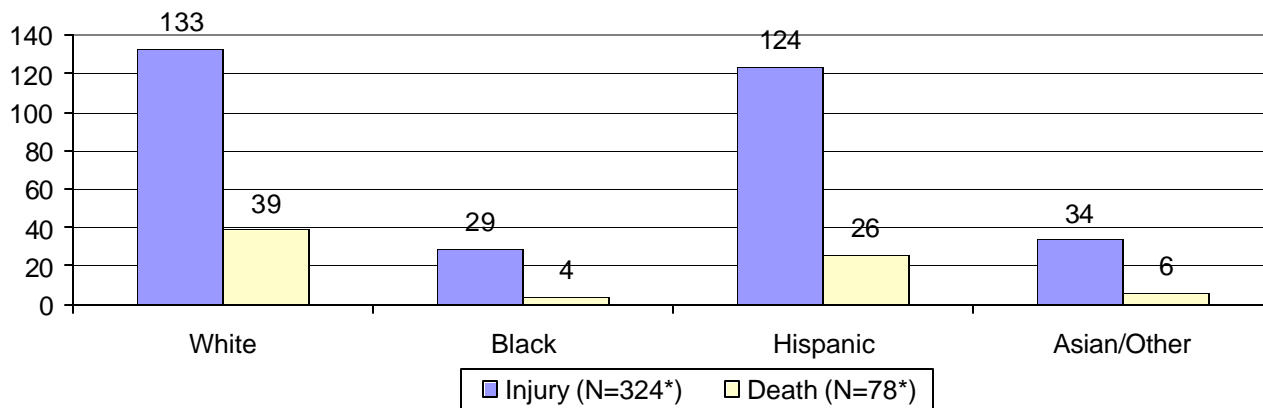


*Totals include four injuries and three deaths with unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02.

The pedestrian injury rate was highest in the Black population (18.14 per 100,000), while deaths were highest among Hispanics (3.22 per 100,000).

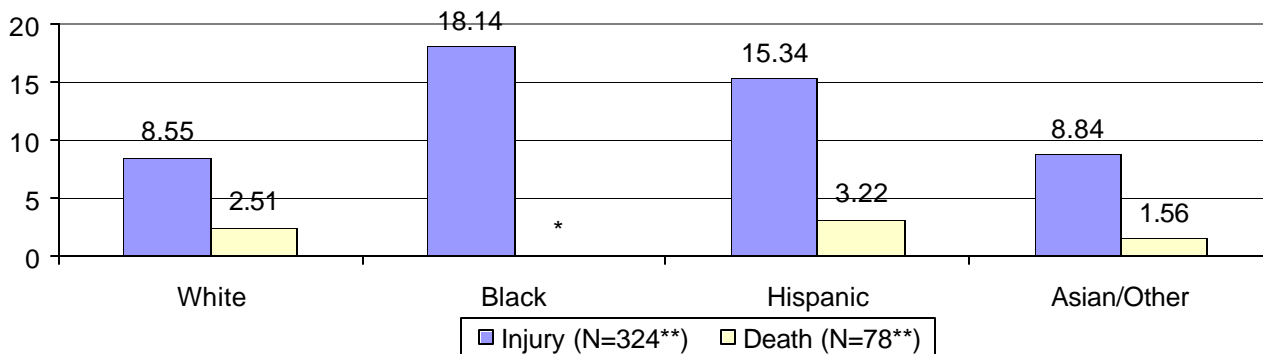
Figure 3.44: Pedestrian Struck Injury and Death by Race/Ethnicity



*Totals include four injuries and three deaths with unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02.

Figure 3.45: Rates of Pedestrian Struck Injury and Death by Race/Ethnicity



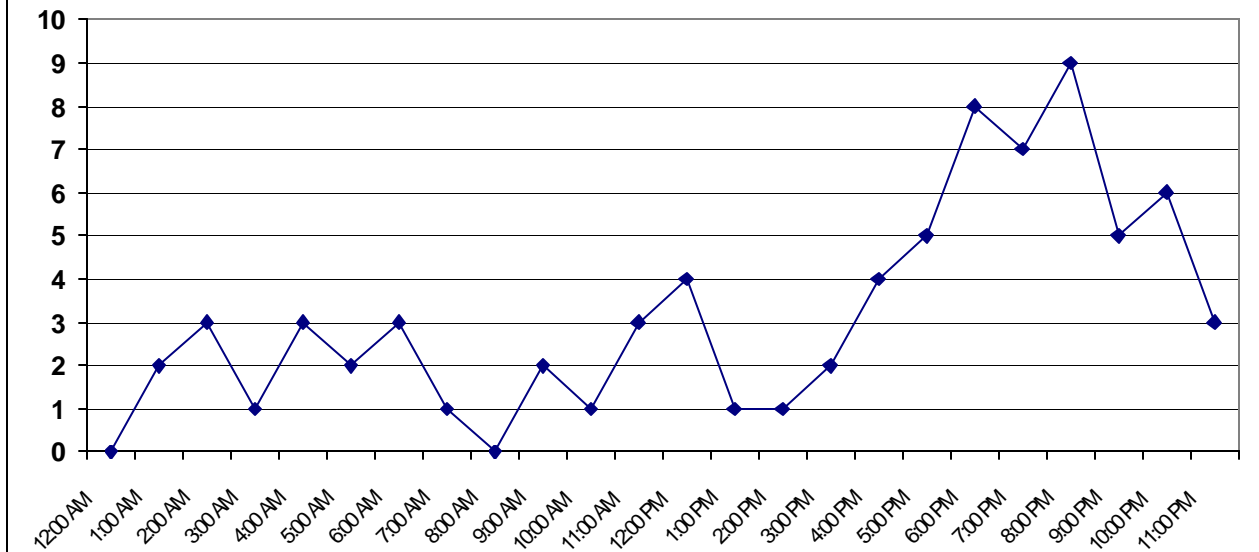
*Rates not calculated on fewer than five incidents.

**Totals include four injuries and three deaths with unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02.

The number of pedestrian deaths was highest during the late afternoon and evening hours, with the incidence peaking between 8:00 p.m. and 9:00 p.m. Fridays experienced the most injuries and deaths, although the day-to-day variation was not significant.

Figure 3.46: Pedestrian Struck Death by Known Time of Injury

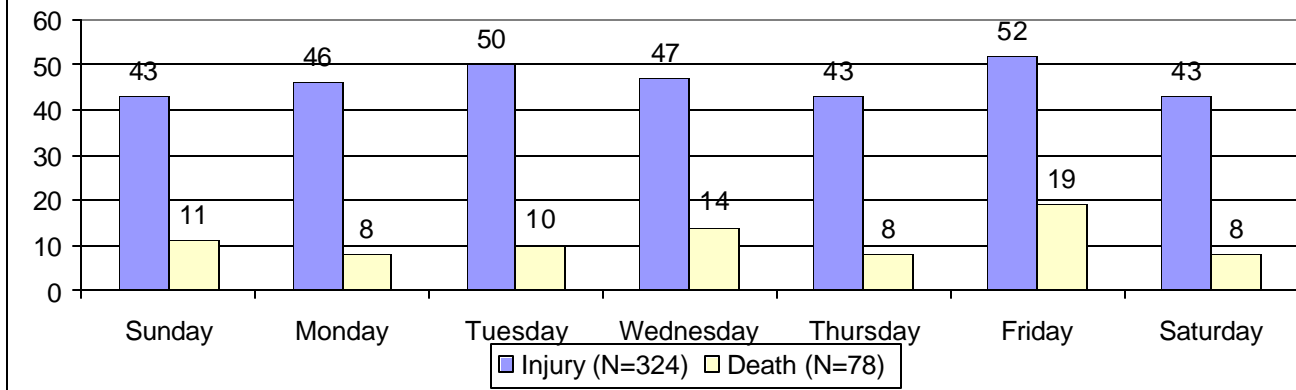


All times are in one hour increments, for example, 6:00 - 6:59 = 6:00

There were 2 deaths with an unidentified time of injury

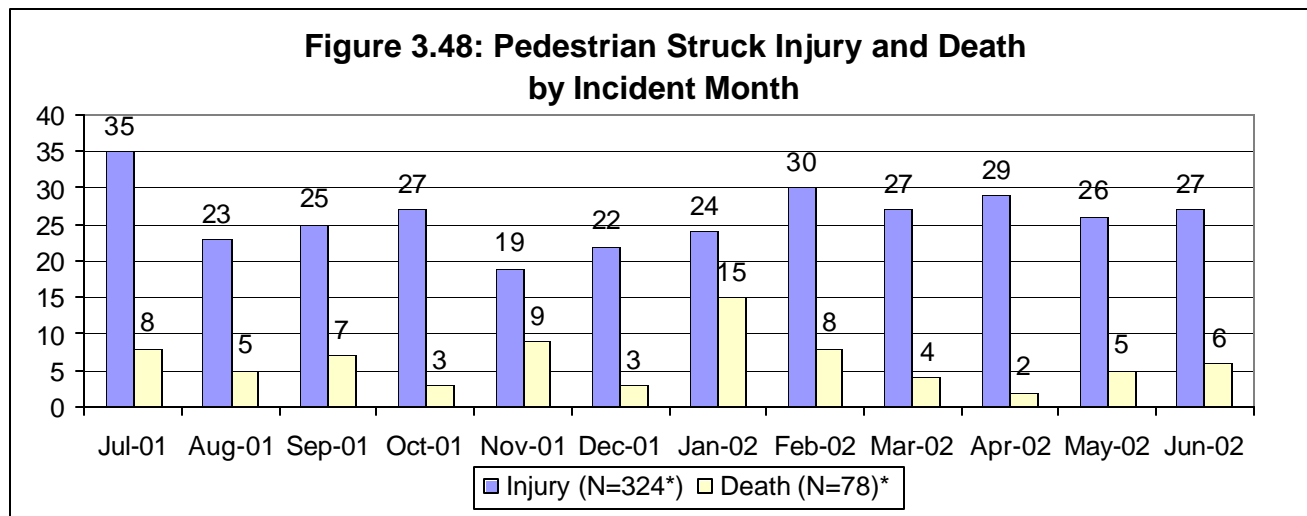
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Medical Examiner's Data, FY 2001/02

Figure 3.47: Pedestrian Struck Injury and Death by Incident Day of Week



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02

July was the peak month for transportation related injuries, while January had the highest number of deaths.

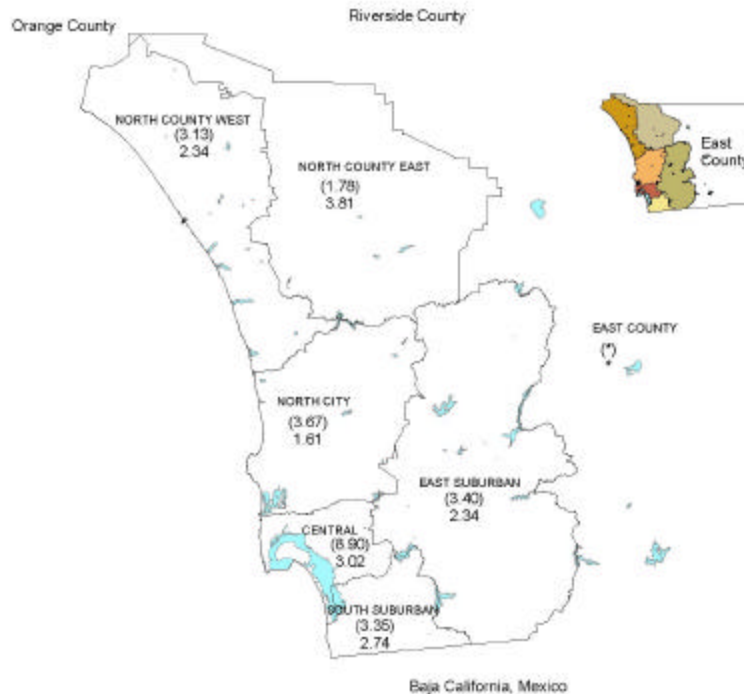


*Ten injuries and three deaths had unspecified incident dates.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02

Incidence and rates of injury by subregional areas (SRA) and Major Statistical Areas (MSA) were calculated from the zip code where the incident took place. The incident zip code was available for 40% of non-fatal pedestrian injuries and for 95% of deaths from pedestrian crashes. The Central MSA had the highest rate of pedestrian injury, while the pedestrian death rate was highest in the North County East MSA. Population estimates for each of the MSAs can be found in Appendix B.

Figure 3.49: Pedestrian Injury and Death Rates per 100,000 by San Diego Major Statistical Area



Legend

Rates displayed in parentheses () reflect injuries while those not in parentheses indicate deaths.

*Rates not calculated on fewer than five incidents.

Please note there were 196 injuries and four deaths with an unknown incident zip code.

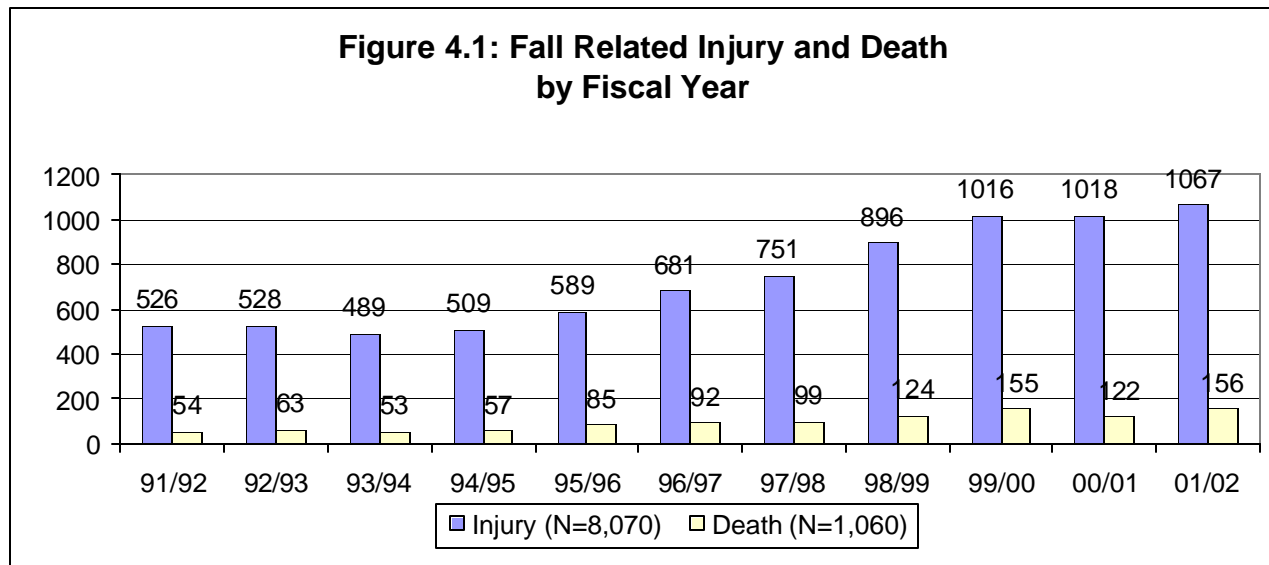
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02; Population estimates, SANDAG.

Other Unintentional Injuries

During FY 2001/02, 1,531 trauma patients were injured or killed following a fall or during a sports/recreation activity. Another 318 were unintentionally injured or killed due to a variety of mechanisms that can best be classified as other. These include being struck by machinery/object, struck by falling object, and other unspecified accidents. See Technical Notes for a full listing of mechanisms included in the other category.

Fall Injuries

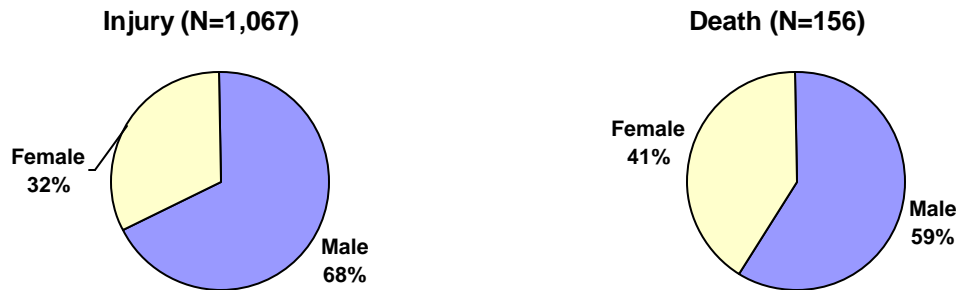
There were 1,067 injuries and 156 deaths resulting from falls in FY 2001/02. Since FY 1993/94, the number of fall injuries has more than doubled, and the number of fatalities from falls has increased nearly three-fold.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 1991/92–2001/02

Males accounted for 68% of injuries and 59% of deaths due to falls and had higher rates of both death and injury for all age groups.

Figure 4.2: Fall Related Injury and Death by Gender



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 2001/02.

People over the age of 84 were at greatest risk of severe injury resulting from a fall, followed by 75-84 year olds and 65-74 year olds (228.84, 134.38, and 56.37, respectively).

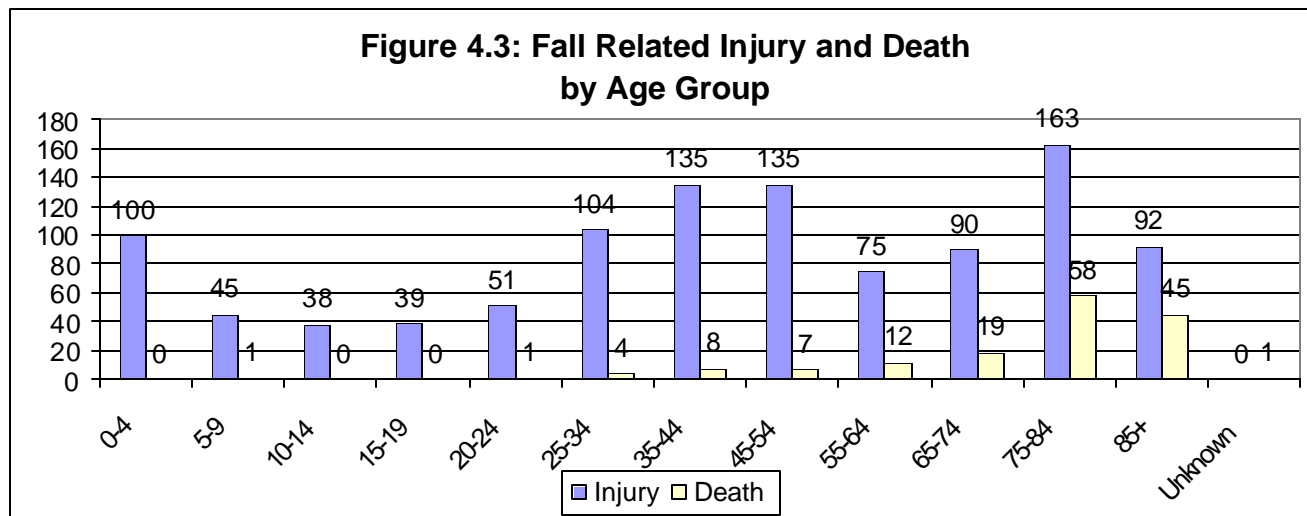
Table 4.1: Number and Rate of Fall Related Injury and Death by Age Group and Gender

	Injury						Death						Overall Total	
	Male		Female		Total		Male		Female		Total			
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
0-4	65	65.39	35	35.56	100	50.55	0	*	0	*	0	*	100	50.55
5-9	33	31.43	12	11.97	45	21.92	1	*	0	*	1	*	46	22.41
10-14	26	23.53	12	11.54	38	17.72	0	*	0	*	0	*	38	17.72
15-19	29	25.55	10	10.01	39	18.27	0	*	0	*	0	*	39	18.27
20-24	39	29.16	12	11.54	51	21.46	1	*	0	*	1	*	52	21.88
25-34	91	37.99	13	5.94	104	22.68	4	*	0	*	4	*	108	23.55
35-44	111	47.58	24	10.61	135	29.38	6	2.57	2	*	8	1.74	143	31.12
45-54	100	54.03	35	18.30	135	35.87	6	3.24	1	*	7	1.86	142	37.73
55-64	56	52.17	19	16.26	75	33.45	9	8.39	3	*	12	5.35	87	38.80
65-74	50	68.83	40	45.97	90	56.37	14	19.27	5	5.75	19	11.90	109	68.27
75-84	87	171.89	76	107.52	163	134.38	28	55.32	30	42.44	58	47.82	221	182.20
85+	34	245.31	58	220.18	92	228.84	22	158.73	23	87.31	45	111.93	137	340.78
Unknown	0		0		-		1	1.98	0		1		1	
Total	721	49.23	346	23.96	1,067	36.69	92	6.28	64	4.43	156	5.36	1,223	42.05

*Rates not calculated on fewer than five incidents.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 2001/02; Population Estimates, SANDAG

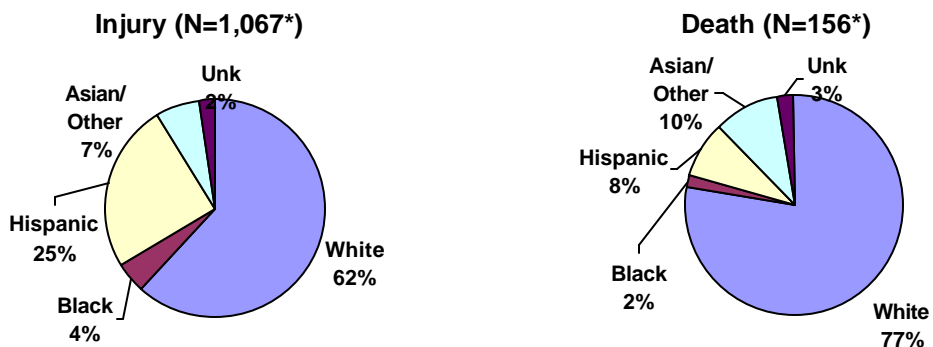
More than one out of every four adults 65 or older who was seriously injured from a fall died from that injury. Seventy-eight percent of all fall deaths were in this age group.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02

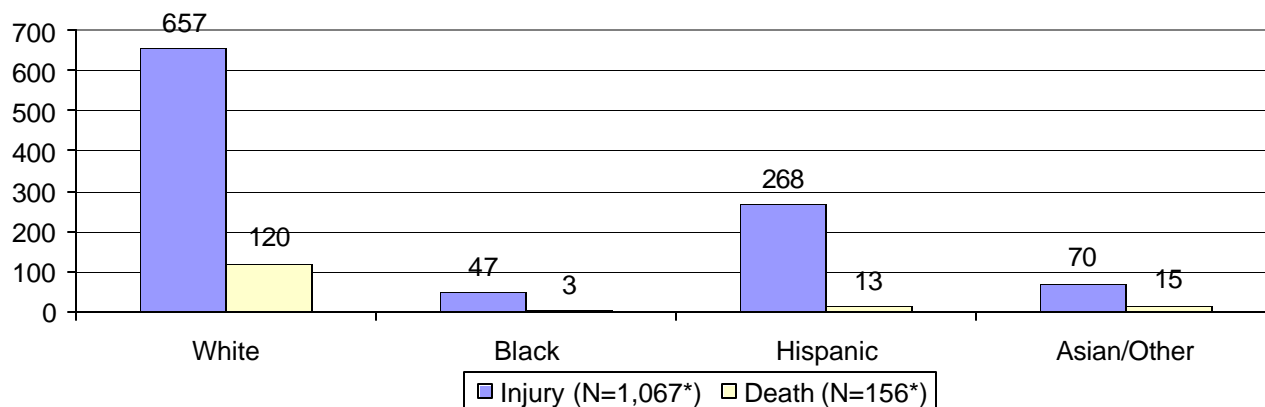
During FY 2001/02, the White population had the highest incidence and rate of injuries and deaths resulting from a fall. Sixty two percent of injuries and 77% of deaths occurred in the White population.

Figure 4.4: Fall Related Injury and Death by Race/Ethnicity



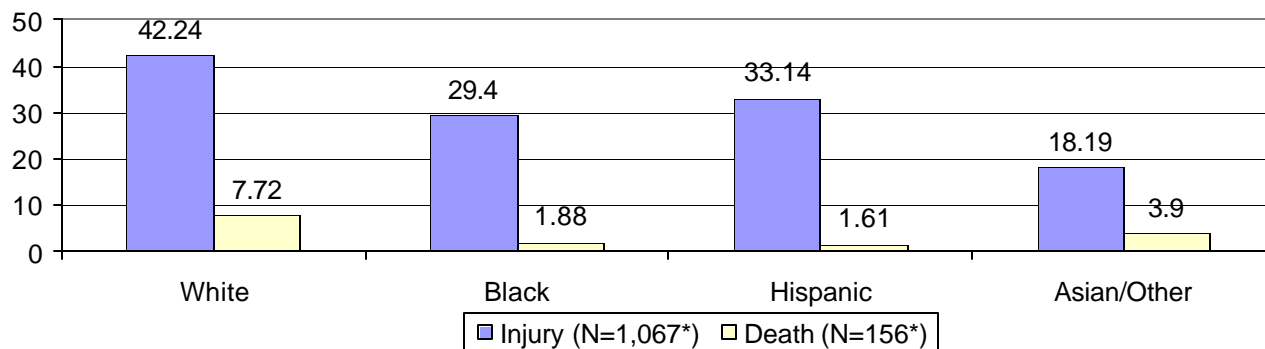
*Total includes 25 injuries and five deaths of unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 2001/02.

Figure 4.5: Fall Related Injury and Death by Race/Ethnicity

*Totals include 25 injuries and five deaths with unspecified race/ethnicity.

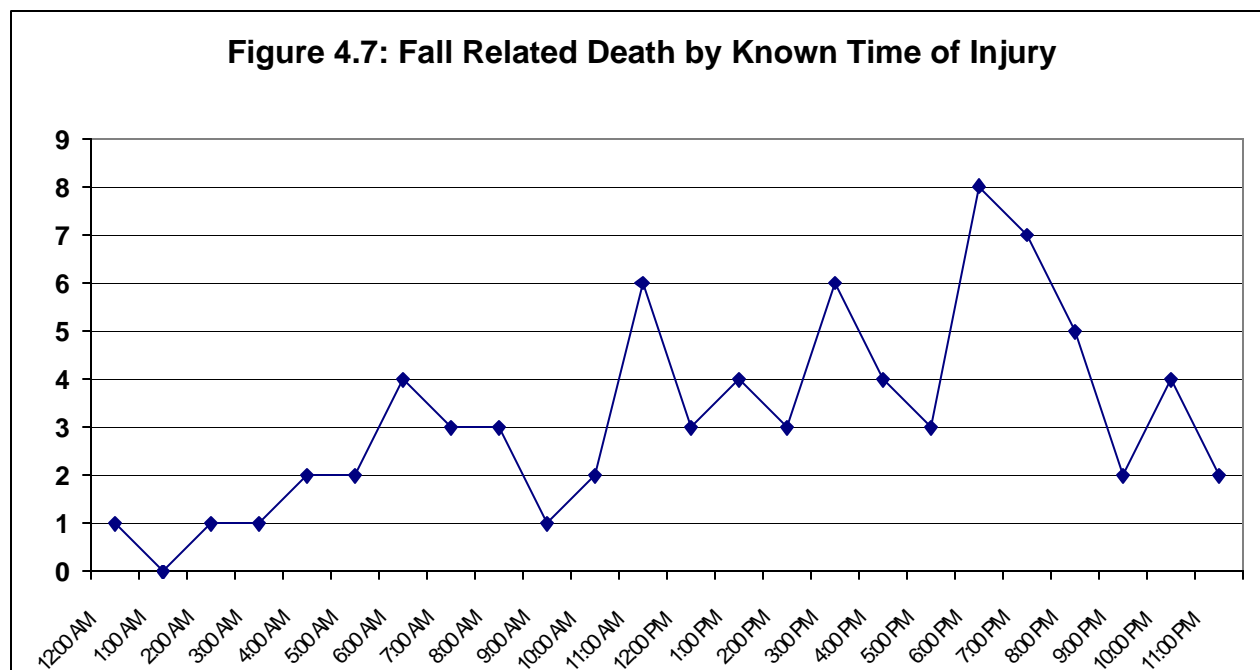
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services.
San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02.

Figure 4.6: Rates of Fall Related Injury and Death by Race/Ethnicity

*Totals include 25 injuries and five deaths with unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services.
San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02.

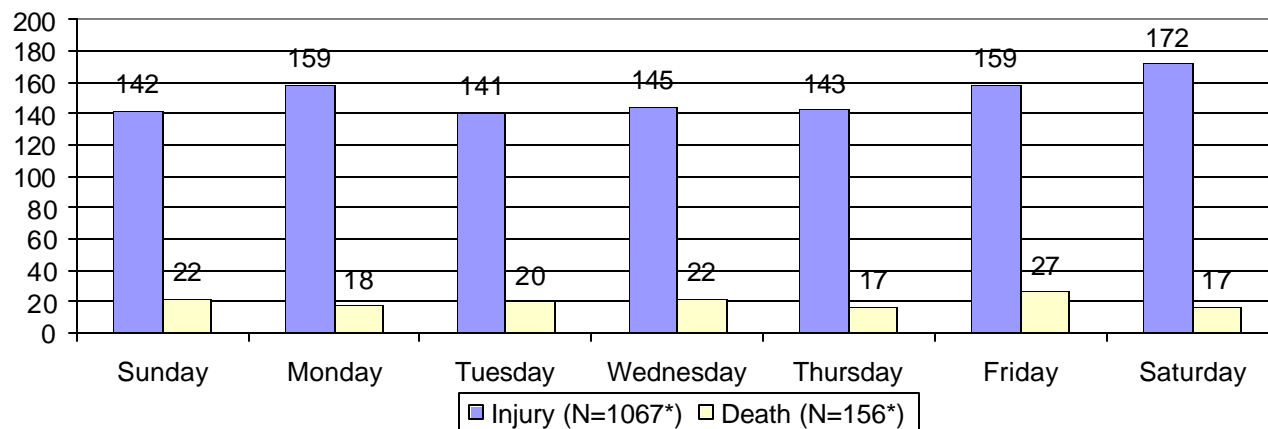
The majority of fall related deaths occurred during the day and had their highest incidence during the 6:00 p.m. hour. Examining the data by day of week and month showed that injuries occurred with the greatest frequency on Saturdays and during the month of January.



All times are in one hour increments, for example, 6:00 - 6:59 = 6:00

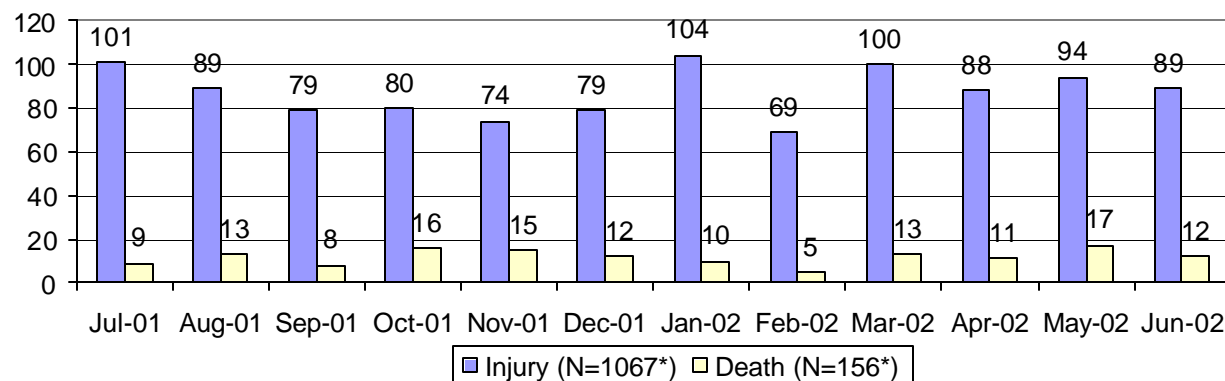
There were 79 deaths with an unidentified time of injury

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Medical Examiner's Data, FY 2001/02

Figure 4.8: Fall Related Injury and Death by Incident Day of Week

*Totals include six injuries and 13 deaths with unspecified incident dates.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02

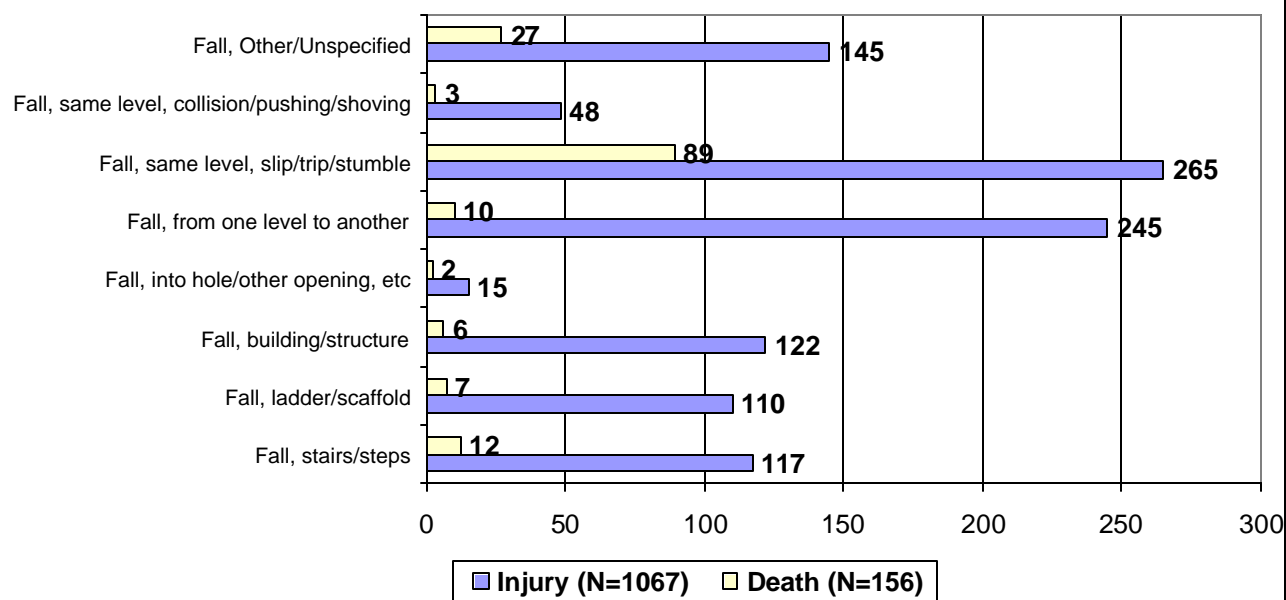
Figure 4.9: Fall Related Injury and Death by Incident Month

*Totals include six injuries and 13 deaths with unspecified incident dates, and 15 injuries and two deaths for which the injury occurred prior to July 2001.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02

Twenty nine percent of fall injuries (313) and 59% of deaths from falls were specified as falling from the same level. Falls from one level to another, including falls into holes, falls from structures, and falls from ladders/scaffolds or stairs/steps, comprised 57% of injuries from falls, and 24% of deaths.

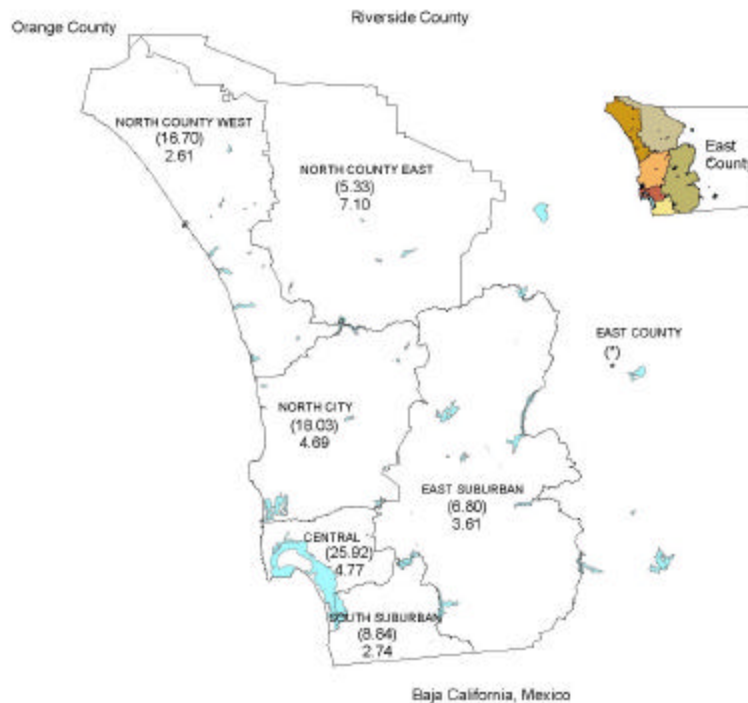
Figure 4.10: Fall Related Injury and Death by Mechanism



Source: County of San Diego Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02.

Incidence and rates of injury by subregional areas (SRA) and Major Statistical Areas (MSA) were calculated from the zip code where the incident took place. The incident zip code was available for 41% of non-fatal fall injuries and for 81% of deaths from falls. The Central MSA had the highest rate of fall injury (25.92 per 100,000) and death (4.77 per 100,000). Population estimates for each of the MSAs can be found in Appendix B.

Figure 4.11: Fall Injury and Death Rates per 100,000 by San Diego Major Statistical Area



Legend

Rates displayed in parentheses () reflect injuries while those not in parentheses indicate deaths.

*Rates not calculated on fewer than five incidents.

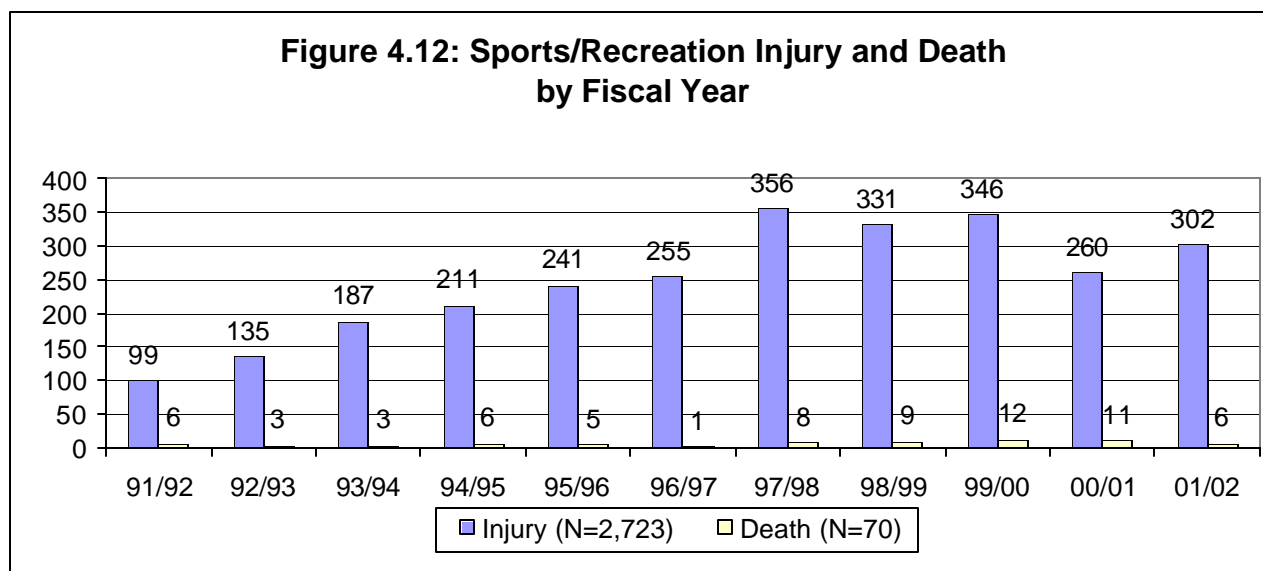
Please note there were 633 injuries and 30 deaths with an unknown incident zip code.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data: FY 2001/02; Population estimates, SANDAG.

Sports and Recreation Injuries

Sports and recreation injuries include: skates, roller blades, skiing, sleds, off road vehicles, riding animals, water sports, fall from playground equipment or injuries sustained while participating in sports (hit, kicked, struck). Sports and recreation did not account for a large percentage of injury deaths or years of potential life lost. Between FY 1991/92 and FY 2001/02, there was one death to every 39 severe injuries due to sports/recreation activity.

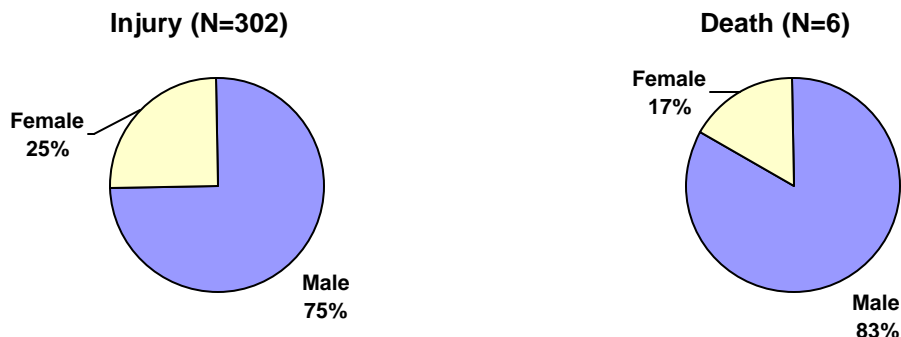
The number of injuries increased 16% from FY 2000/01 to FY 2001/02, and the number of deaths decreased from eleven to six. Neither of these changes was statistically significant.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 1991/92 – 2001/02

Seventy five percent of injuries and 83% of deaths due to sports/recreation activity were to males. More than half of the severe injuries occurred among those under the age of 20.

Figure 4.13: Sports/Recreation Injury and Death by Gender



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 2001/02.

Table 4.2: Number and Rate* (per 100,000) of Sports and Recreation Injury by Age Group and Gender

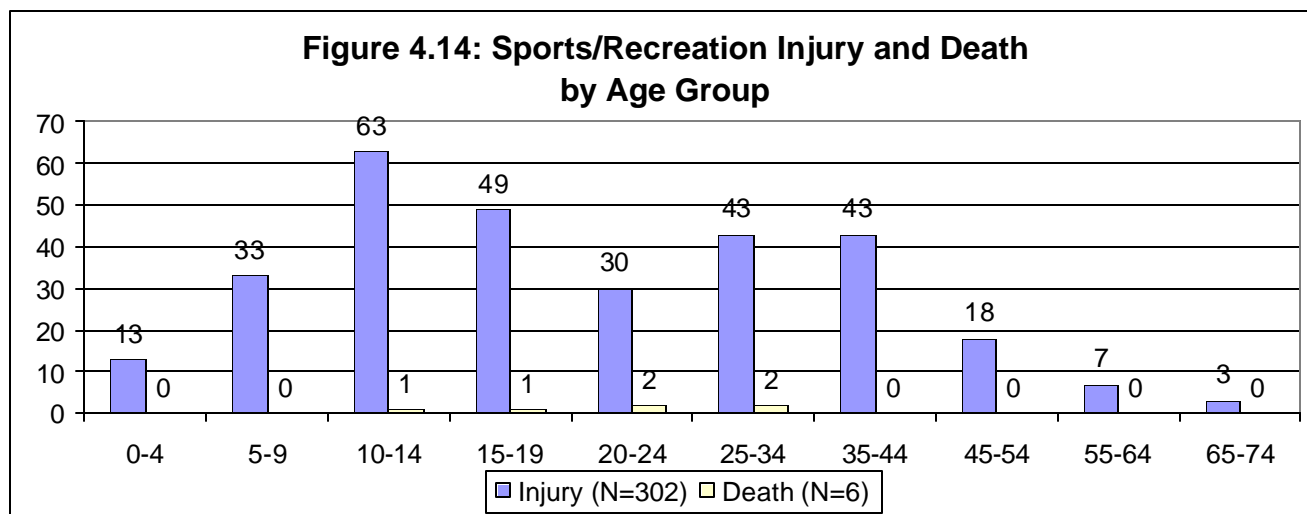
	Injury					
	Male		Female		Total	
	Number	Rate	Number	Rate	Number	Rate
0-4	8	8.05	5	5.08	13	6.57
5-9	26	24.76	7	6.98	33	16.08
10-14	49	44.35	14	13.46	63	29.37
15-19	41	36.12	8	8.01	49	22.96
20-24	23	17.20	7	6.73	30	12.62
25-34	32	13.36	11	5.02	43	9.38
35-44	30	12.86	13	5.75	43	9.36
45-54	11	5.94	7	3.66	18	4.78
55-64	2	*	5	4.28	7	3.12
65-74	3	*	0	*	3	*
75-84	0	*	0	*	0	*
85+	0	*	0	*	0	*
Total	225	15.36	77	5.33	302	10.38

*Rates not calculated on fewer than five incidents.

Due to low numbers deaths were not included in the table.

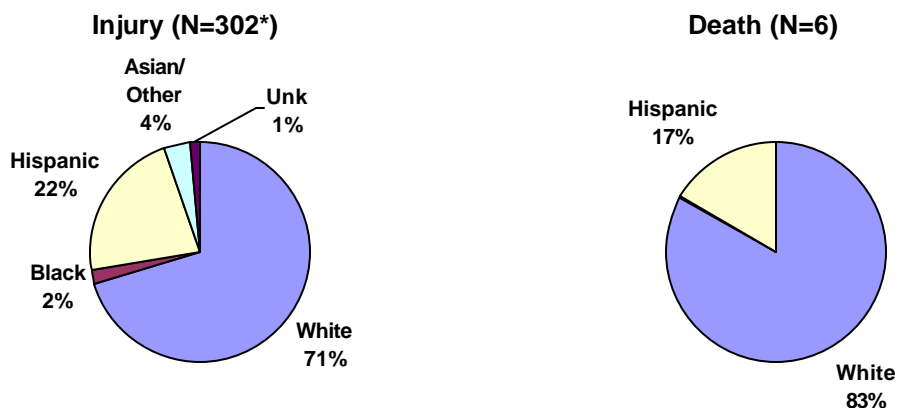
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 2001/02; Population Estimates, SANDAG

Sports/Recreation injuries occurred with the greatest frequency and rate in the 10 to 14 and 15 to 19 year age groups. Whites had 71% of injuries as well as the highest rate of injury due to sports and recreation activities (13.63 per 100,000).



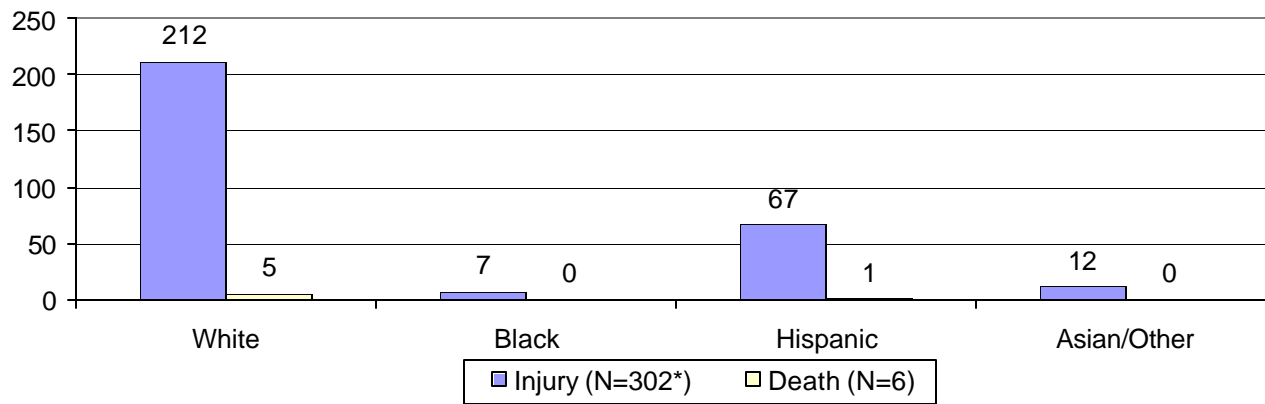
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02

Figure 4.15: Sports/Recreation Injury and Death by Race/Ethnicity



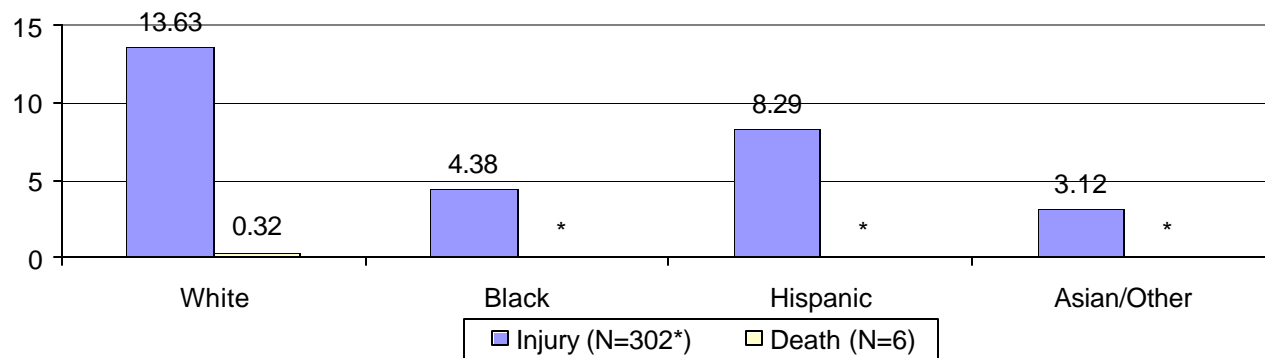
*Total includes four injuries with unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 2001/02.

Figure 4.16: Sports/Recreation Injury and Death by Race/Ethnicity

*Totals include four injuries with unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services.
San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02.

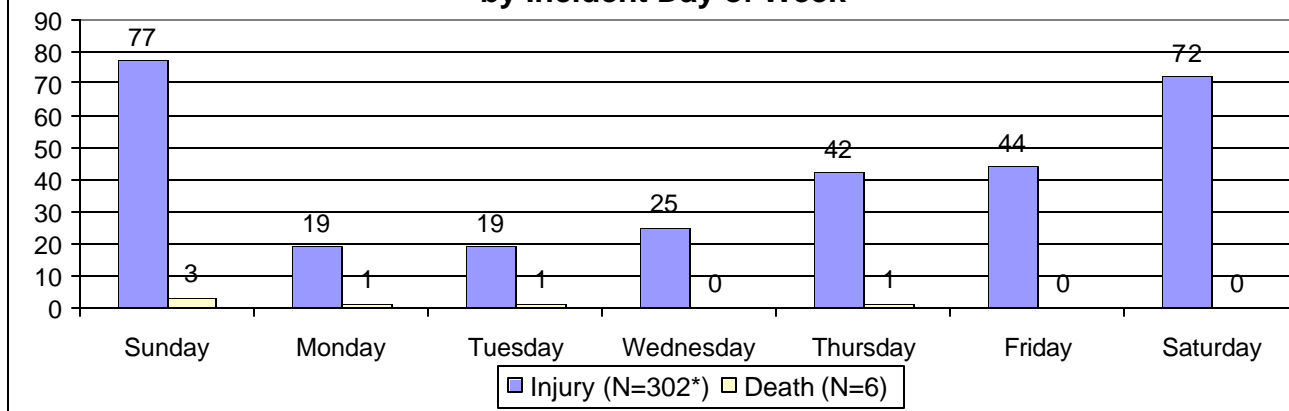
Figure 4.17: Rates of Sports/Recreation Injury and Death by Race/Ethnicity

*Totals include four injuries with unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services.
San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02.

Almost half (49%) of sports and recreation-related injuries occurred on weekends. By month, March had the highest number of injuries (38).

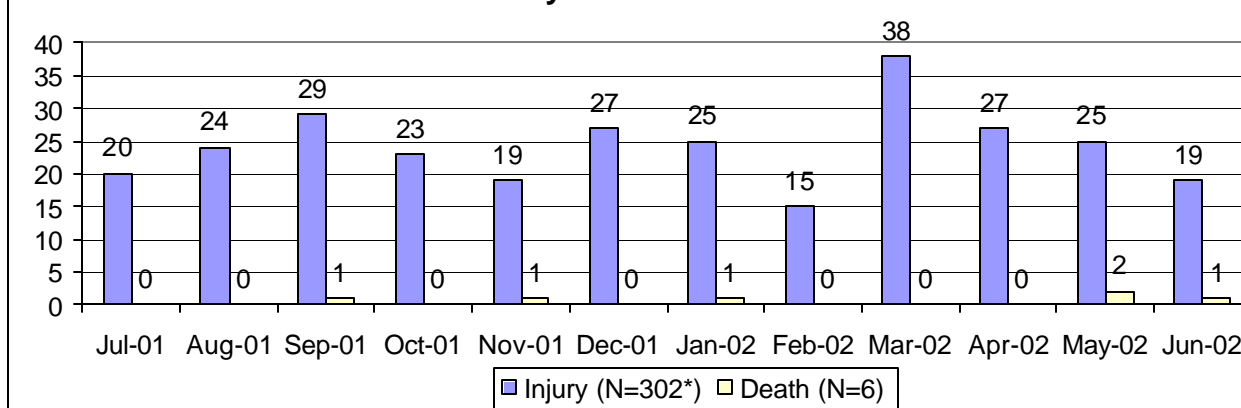
**Figure 4.18: Sports/Recreation Injury and Death
by Incident Day of Week**



*Totals include four injuries with unspecified incident dates.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02

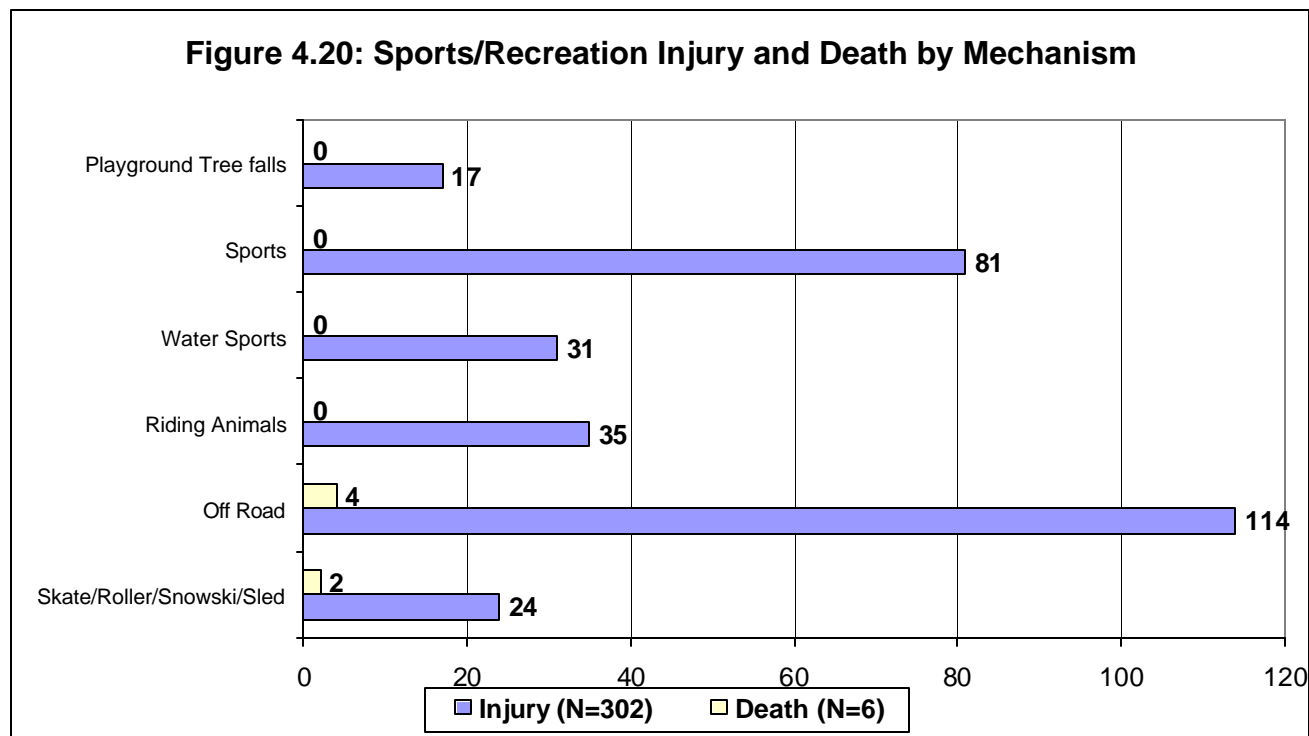
**Figure 4.19: Sports/Recreation Injury and Death
by Incident Month**



*Totals include four injuries with unspecified incident dates and seven injuries that occurred prior to July 2001.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02

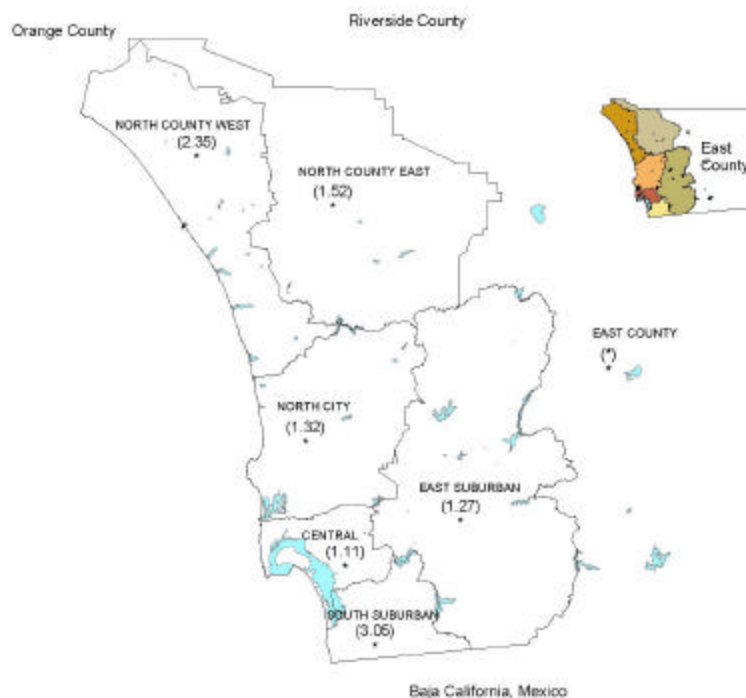
The highest number of injuries was due to off-road vehicle activity, followed by sports, riding animals, and water sports.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02

Incidence and rates of injury by subregional areas (SRA) and Major Statistical Areas (MSA) were calculated from the zip code where the incident took place. The incident zip code was available for 17% of non-fatal sports and recreation injuries and for 67% of deaths. Injury rates were highest in the South Suburban region of San Diego (3.05 per 100,000). Population estimates for each of the MSAs can be found in Appendix B.

Figure 4.21: Sports/Recreation Injury and Death Rates per 100,000 by San Diego Major Statistical Area



Legend

Rates displayed in parentheses () reflect injuries while those not in parentheses indicate deaths.

*Rates not calculated on fewer than five incidents.

Please note there were 252 injuries and two deaths with an unknown incident zip code.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data: FY 2001/02; Population estimates, (SANDAG).

**Who is at Greatest Risk of Violent Injury and Death?
(Rates = Number per 100,000 Population)**

- **Assault:** Black males aged 15-19, 20-24, and 25-34 (206.6, 195.4, and 119.7, respectively) were at highest risk of sustaining a serious injury due to an assault, followed by Hispanic males 20-24 years of age (115.0).
- **Homicide:** The rate of homicide was highest among Black men age 35-44 (33.5).
- **Unarmed Assault:** Blacks aged less than five years, 25-34 years, and 35-44 years were at greatest risk of serious injury due to an unarmed assault, with rates of 57.2, 22.6, and 18.0, respectively.
- **Assault by Firearm:** Blacks aged 20-24 and 15-19 (47.8 and 44.9) were most likely to be assaulted with a gun.
- **Assault by Stabbing:** Blacks 20-24 years of age (68.3) were at greatest risk of serious injury due to stabbing assault.
- **Homicide by Firearm:** Blacks aged 35-44 (21.6) had the highest firearm homicide rate, although the highest rate for all race/ethnicities combined was seen in 15-19 year olds (5.2).
- **Self-Inflicted Injuries:** White males 20-24 years of age (11.7) were most likely to inflict nonfatal injuries on themselves.
- **Suicide:** The traumatic suicide rate for White males 85 years and older (68.2) was 6.7 times higher than the rate for males of all ages (10.2).

Table 5.1: Assault by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
Under 5									
White	41,064	3	*	39,256	4	*	80,320	7	8.72
Black	6,159	2	*	6,071	5	82.36	12,230	7	57.24
Hispanic	36,831	5	13.58	38,763	1	*	75,594	6	7.94
Asian/Other	15,351	1	*	14,328	0	-	29,679	1	*
Subtotal	99,405	11	11.07	98,418	11	11.18	197,823	22	11.12
5-9									
White	42,078	0	-	39,621	0	-	81,699	0	-
Black	7,122	0	-	6,696	0	-	13,818	0	-
Hispanic	40,440	1	*	39,642	0	-	80,082	1	*
Asian/Other	15,366	0	-	14,308	0	-	29,674	0	-
Subtotal	105,006	1	*	100,267	0	-	205,273	1	*
10-14									
White	45,218	1	*	42,918	0	-	88,136	1	*
Black	7,230	2	*	7,040	0	-	14,270	2	*
Hispanic	42,723	7	16.38	39,758	1	*	82,481	8	9.70
Asian/Other	15,311	0	-	14,299	0	-	29,610	0	-
Subtotal	110,482	10	9.05	104,015	1	*	214,497	11	5.13
15-19									
White	49,476	21	42.44	43,294	3	*	92,770	24	25.87
Black	7,260	15	206.61	6,111	2	*	13,371	17	127.14
Hispanic	40,392	39	96.55	35,135	3	*	75,527	42	55.61
Asian/Other	16,397	5	30.49	15,361	1	*	31,758	6	18.89
Subtotal	113,525	83	73.11	99,901	9	9.01	213,426	92	43.11
20-24									
White	59,695	38	63.66	44,514	3	*	104,209	41	39.34
Black	8,701	17	195.38	5,942	6	100.98	14,643	23	157.07
Hispanic	47,842	55	114.96	37,473	2	*	85,315	57	66.81
Asian/Other	17,504	16	91.41	16,025	1	*	33,529	17	50.70
Subtotal	133,742	127	94.96	103,954	12	11.54	237,696	139	58.48
25-34									
White	113,267	58	51.21	99,211	5	5.04	212,478	63	29.65
Black	15,039	18	119.69	11,492	5	43.51	26,531	23	86.69
Hispanic	79,845	72	90.17	75,548	4	*	155,393	77	49.55
Asian/Other	31,382	8	25.49	32,762	2	*	64,144	10	15.59
Subtotal	239,533	161	67.21	219,013	17	7.76	458,546	179	39.04
35-44									
White	133,872	57	42.58	122,362	5	4.09	256,234	62	24.20
Black	14,911	13	87.18	12,889	3	*	27,800	16	57.55
Hispanic	55,865	21	37.59	59,234	5	8.44	115,099	26	22.59
Asian/Other	28,663	5	17.44	31,703	1	*	60,366	6	9.94
Subtotal	233,311	96	41.15	226,188	14	6.19	459,499	110	23.94
45-54									
White	122,342	28	22.89	120,197	2	*	242,539	30	12.37
Black	9,329	9	96.47	8,795	3	*	18,124	12	66.21
Hispanic	31,466	10	31.78	35,986	1	*	67,452	11	16.31
Asian/Other	21,962	1	*	26,292	0	-	48,254	1	*
Subtotal	185,099	49	26.47	191,270	7	3.66	376,369	56	14.88

* Rate not calculated on less than five incidents.

** Totals include 15 patients with unspecified age, race/ethnicity, and/or gender.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2001/02; Population Estimates, SANDAG

Table 5.1: Assault by Age Group, Race/Ethnicity and Gender (Continued)

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
55-64									
White	75,943	8	10.53	77,964	0	-	153,907	8	5.20
Black	4,565	4	*	4,980	0	-	9,545	4	*
Hispanic	14,917	3	*	19,140	0	-	34,057	3	*
Asian/Other	11,908	0	-	14,797	0	-	26,705	0	-
Subtotal	107,333	15	13.98	116,881	0	-	224,214	15	6.69
65-74									
White	52,568	7	13.32	59,403	0	-	111,971	7	6.25
Black	2,660	0	-	3,086	0	-	5,746	0	-
Hispanic	9,626	2	*	13,106	0	-	22,732	2	*
Asian/Other	7,790	1	*	11,424	0	-	19,214	1	*
Subtotal	72,644	10	13.77	87,019	0	-	159,663	10	6.26
75-84									
White	40,522	0	-	56,485	1	*	97,007	1	*
Black	1,218	0	-	1,713	0	-	2,931	0	-
Hispanic	4,783	1	*	6,935	0	-	11,718	1	*
Asian/Other	4,092	0	-	5,549	0	-	9,641	0	-
Subtotal	50,615	1	*	70,682	1	*	121,297	2	*
85+									
White	11,737	0	-	22,327	0	-	34,064	0	-
Black	253	0	-	588	0	-	841	0	-
Hispanic	1,045	0	-	2,102	0	-	3,147	0	-
Asian/Other	825	0	-	1,325	0	-	2,150	0	-
Subtotal	13,860	0	-	26,342	0	-	40,202	0	-
Total**	1,464,555	565	38.58	1,443,950	72	4.99	2,908,505	638	21.94

* Rate not calculated on less than five incidents.

** Totals include 14 patients with unspecified age, race/ethnicity, and/or gender.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2001/02; Population Estimates, SANDAG

Table 5.2: Homicide by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
Under 5									
White	41,064	0	-	39,256	0	-	80,320	-	-
Black	6,159	1	*	6,071	1	*	12,230	2	*
Hispanic	36,831	1	*	38,763	0	-	75,594	1	*
Asian/Other	15,351	0	-	14,328	0	-	29,679	-	-
Subtotal	99,405	2	*	98,418	1	*	197,823	3	*
5-9									
White	42,078	0	-	39,621	0	-	81,699	-	-
Black	7,122	0	-	6,696	0	-	13,818	-	-
Hispanic	40,440	1	*	39,642	1	*	80,082	2	*
Asian/Other	15,366	0	-	14,308	0	-	29,674	-	-
Subtotal	105,006	1	*	100,267	1	*	205,273	2	*
10-14									
White	45,218	0	-	42,918	0	-	88,136	-	-
Black	7,230	0	-	7,040	0	-	14,270	-	-
Hispanic	42,723	0	-	39,758	0	-	82,481	-	-
Asian/Other	15,311	0	-	14,299	0	-	29,610	-	-
Subtotal	110,482	-	-	104,015	-	-	214,497	-	-
15-19									
White	49,476	0	-	43,294	1	*	92,770	1	*
Black	7,260	3	*	6,111	0	-	13,371	3	*
Hispanic	40,392	5	12.38	35,135	1	*	75,527	6	7.94
Asian/Other	16,397	1	*	15,361	1	*	31,758	2	*
Subtotal	113,525	9	7.93	99,901	3	*	213,426	12	5.62
20-24									
White	59,695	0	-	44,514	1	*	104,209	1	*
Black	8,701	4	*	5,942	0	-	14,643	4	*
Hispanic	47,842	4	*	37,473	1	*	85,315	5	5.86
Asian/Other	17,504	2	*	16,025	0	-	33,529	2	*
Subtotal	133,742	10	7.48	103,954	2	*	237,696	12	5.05
25-34									
White	113,267	4	*	99,211	1	*	212,478	5	2.35
Black	15,039	4	*	11,492	0	-	26,531	4	*
Hispanic	79,845	10	12.52	75,548	0	-	155,393	10	6.44
Asian/Other	31,382	0	-	32,762	1	*	64,144	1	*
Subtotal	239,533	18	7.51	219,013	2	*	458,546	20	4.36
35-44									
White	133,872	5	3.73	122,362	3	*	256,234	8	3.12
Black	14,911	5	33.53	12,889	2	*	27,800	7	25.18
Hispanic	55,865	5	8.95	59,234	1	*	115,099	6	5.21
Asian/Other	28,663	1	*	31,703	0	-	60,366	1	*
Subtotal	233,311	16	6.86	226,188	6	2.65	459,499	22	4.79
45-54									
White	122,342	4	*	120,197	1	*	242,539	5	2.06
Black	9,329	0	-	8,795	0	-	18,124	-	-
Hispanic	31,466	0	-	35,986	1	*	67,452	1	*
Asian/Other	21,962	1	*	26,292	0	-	48,254	1	*
Subtotal	185,099	5	2.70	191,270	2	*	376,369	7	1.86

* Rate not calculated on less than five incidents.

** Totals include 4 cases with unspecified age, race/ethnicity, and/or gender.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2001/02; Population Estimates, SANDAG

Table 5.2: Homicide by Age Group, Race/Ethnicity and Gender (Continued)

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
55-64									
White	75,943	0	-	77,964	0	-	153,907	-	-
Black	4,565	0	-	4,980	0	-	9,545	-	-
Hispanic	14,917	2	*	19,140	0	-	34,057	2	*
Asian/Other	11,908	0	-	14,797	0	-	26,705	-	-
Subtotal	107,333	2	*	116,881	-	-	224,214	2	*
65-74									
White	52,568	2	*	59,403	0	-	111,971	2	*
Black	2,660	0	-	3,086	0	-	5,746	-	-
Hispanic	9,626	1	*	13,106	0	-	22,732	1	*
Asian/Other	7,790	0	-	11,424	0	-	19,214	-	-
Subtotal	72,644	3	*	87,019	-	-	159,663	3	*
75-84									
White	40,522	0	-	56,485	3	*	97,007	3	*
Black	1,218	0	-	1,713	0	-	2,931	-	-
Hispanic	4,783	0	-	6,935	1	*	11,718	1	*
Asian/Other	4,092	0	-	5,549	0	-	9,641	-	-
Subtotal	50,615	-	-	70,682	4	*	121,297	4	*
85+									
White	11,737	0	-	22,327	1	*	34,064	1	*
Black	253	0	-	588	0	-	841	-	-
Hispanic	1,045	0	-	2,102	0	-	3,147	-	-
Asian/Other	825	0	-	1,325	0	-	2,150	-	-
Subtotal	13,860	-	-	26,342	1	*	40,202	1	*
Total**	1,464,555	66	4.51	1,443,950	25	1.71	2,908,505	92	3.16

* Rate not calculated on less than five incidents.

** Totals include 4 cases with unspecified age, race/ethnicity, and/or gender.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2001/02; Population Estimates, SANDAG

Table 5.3: Assault by Age Group, Race/Ethnicity and Mechanism

		Unarmed		Gunshot		Stabbing		Other Assault	
	Population	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Under 5									
White	80,320	6	7.47	0	-	0	-	1	*
Black	12,230	7	57.24	0	-	0	-	0	-
Hispanic	75,594	6	7.94	0	-	0	-	0	-
Asian/Other	29,679	1	*	0	-	0	-	0	-
Subtotal	197,823	21	10.62	0	-	0	-	1	*
5-9									
White	81,699	0	-	0	-	0	-	0	-
Black	13,818	0	-	0	-	0	-	0	-
Hispanic	80,082	1	*	0	-	0	-	0	-
Asian/Other	29,674	0	-	0	-	0	-	0	-
Subtotal	205,273	1	*	0	-	0	-	0	-
10-14									
White	88,136	0	-	1	*	0	-	0	-
Black	14,270	1	*	0	-	1	*	0	-
Hispanic	82,481	2	*	2	*	4	*	0	-
Asian/Other	29,610	0	-	0	-	0	-	0	-
Subtotal	214,497	3	*	3	*	5	2.33	0	-
15-19									
White	92,770	7	7.55	2	*	8	8.62	7	7.55
Black	13,371	4	*	6	44.87	6	44.87	1	*
Hispanic	75,527	6	7.94	11	14.56	21	27.80	4	*
Asian/Other	31,758	1	*	2	*	2	*	1	*
Subtotal	213,426	18	8.43	22	10.31	39	18.27	13	6.09
20-24									
White	104,209	13	12.47	5	4.80	18	17.27	5	4.80
Black	14,643	3	*	7	47.80	10	68.29	3	*
Hispanic	85,315	11	12.89	12	14.07	25	29.30	9	10.55
Asian/Other	33,529	2	*	7	20.88	5	14.91	3	*
Subtotal	237,696	29	12.20	31	13.04	59	24.82	20	8.41
25-34									
White	212,478	26	12.24	4	*	16	7.53	17	8.00
Black	26,531	6	22.62	2	*	8	30.15	7	26.38
Hispanic	155,393	15	9.65	15	9.65	30	19.31	17	10.94
Asian/Other	64,144	1	*	1	*	3	*	5	7.79
Subtotal	458,546	50	10.90	23	5.02	57	12.43	49	10.69
35-44									
White	256,234	28	10.93	7	2.73	12	4.68	15	5.85
Black	27,800	5	17.99	3	*	4	*	4	*
Hispanic	115,099	5	4.34	5	4.34	6	5.21	10	8.69
Asian/Other	60,366	2	*	1	*	2	*	1	*
Subtotal	459,499	40	8.71	16	3.48	24	5.22	30	6.53
45-54									
White	242,539	15	6.18	2	*	4	*	9	3.71
Black	18,124	3	*	2	*	4	*	3	*
Hispanic	67,452	4	*	0	-	3	*	4	*
Asian/Other	48,254	1	*	0	-	0	-	0	-
Subtotal	376,369	23	6.11	4	*	12	3.19	17	4.52

* Rate not calculated on less than five incidents.

** Totals include one victim with an unidentified age, and 13 with an unspecified race.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2001/02; Population Estimates, SANDAG.

Table 5.3: Assault by Age Group, Race/Ethnicity and Mechanism (Continued)

		Unarmed		Gunshot		Stabbing		Other Assault	
	Population	Number	Rate	Number	Rate	Number	Rate	Number	Rate
55-64									
White	153,907	3	*	1	*	1	*	3	*
Black	9,545	3	*	0	-	0	-	1	*
Hispanic	34,057	1	*	0	-	1	*	1	*
Asian/Other	26,705	0	-	0	-	0	-	0	-
Subtotal	224,214	7	3.12	1	*	2	*	5	2.23
65-74									
White	111,971	6	5.36	0	-	0	-	1	*
Black	5,746	0	-	0	-	0	-	0	-
Hispanic	22,732	0	-	0	-	0	-	2	*
Asian/Other	19,214	0	-	0	-	1	*	0	-
Subtotal	159,663	6	3.76	0	-	1	*	3	*
75-84									
White	97,007	0	-	0	-	0	-	0	-
Black	2,931	0	-	0	-	0	-	0	-
Hispanic	11,718	1	*	1	*	0	-	0	-
Asian/Other	9,641	0	-	0	-	0	-	0	-
Subtotal	121,297	1	*	1	*	0	-	0	-
85+									
White	34,064	0	-	0	-	0	-	0	-
Black	841	0	-	0	-	0	-	0	-
Hispanic	3,147	0	-	0	-	0	-	0	-
Asian/Other	2,150	0	-	0	-	0	-	0	-
Subtotal	40,202	0	-	0	-	0	-	0	-
Total**	2,908,505	199	6.84	102	3.51	199	6.84	138	4.74

* Rate not calculated on less than five incidents.

** Totals include one victim with an unidentified age, and 13 with an unspecified race.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2001/02; Population Estimates, SANDAG.

Table 5.4: Homicide by Age Group, Race/Ethnicity and Mechanism

		Unarmed		Gunshot		Stabbing		Other Assault	
	Population	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Under 5									
White	80,320	0	-	0	-	0	-	0	-
Black	12,230	2	*	0	-	0	-	0	-
Hispanic	75,594	1	*	0	-	0	-	0	-
Asian/Other	29,679	0	-	0	-	0	-	0	-
Subtotal	197,823	3	*	0	-	0	-	0	-
5-9									
White	81,699	0	-	0	-	0	-	0	-
Black	13,818	0	-	0	-	0	-	0	-
Hispanic	80,082	0	-	0	-	0	-	2	*
Asian/Other	29,674	0	-	0	-	0	-	0	-
Subtotal	205,273	0	-	0	-	0	-	2	*
10-14									
White	88,136	0	-	0	-	0	-	0	-
Black	14,270	0	-	0	-	0	-	0	-
Hispanic	82,481	0	-	0	-	0	-	0	-
Asian/Other	29,610	0	-	0	-	0	-	0	-
Subtotal	214,497	0	-	0	-	0	-	0	-
15-19									
White	92,770	0	-	1	*	0	-	0	-
Black	13,371	0	-	3	*	0	-	0	-
Hispanic	75,527	0	-	6	7.94	0	-	0	-
Asian/Other	31,758	0	-	1	*	1	*	0	-
Subtotal	213,426	0	-	11	5.15	1	*	0	-
20-24									
White	104,209	0	-	0	-	1	*	0	-
Black	14,643	0	-	4	*	0	-	0	-
Hispanic	85,315	0	-	3	*	1	*	1	*
Asian/Other	33,529	0	-	1	*	1	*	0	-
Subtotal	237,696	0	-	8	3.37	3	*	1	*
25-34									
White	212,478	1	*	3	*	1	*	0	-
Black	26,531	0	-	3	*	1	*	0	-
Hispanic	155,393	0	-	5	3.22	4	*	1	*
Asian/Other	64,144	0	-	1	*	0	-	0	-
Subtotal	458,546	1	*	12	2.62	6	1.31	1	*
35-44									
White	256,234	1	*	3	*	1	*	3	*
Black	27,800	0	-	6	21.58	1	*	0	-
Hispanic	115,099	0	-	3	*	2	*	1	*
Asian/Other	60,366	0	-	1	*	0	-	0	-
Subtotal	459,499	1	*	13	2.83	4	*	4	*
45-54									
White	242,539	1	*	3	*	0	-	1	*
Black	18,124	0	-	0	-	0	-	0	-
Hispanic	67,452	0	-	1	*	0	-	0	-
Asian/Other	48,254	0	-	0	-	1	*	0	-
Subtotal	376,369	1	*	4	*	1	*	1	*

* Rate not calculated on less than five incidents.

** Totals include four victims with unknown age.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2001/02; Population Estimates, SANDAG.

Table 5.4: Homicide by Age Group, Race/Ethnicity and Mechanism (Continued)

		Unarmed		Gunshot		Stabbing		Other Assault	
	Population	Number	Rate	Number	Rate	Number	Rate	Number	Rate
55-64									
White	153,907	0	-	0	-	0	-	1	*
Black	9,545	0	-	0	-	0	-	0	-
Hispanic	34,057	1	*	0	-	0	-	0	-
Asian/Other	26,705	0	-	0	-	0	-	0	-
Subtotal	224,214	1	*	0	-	0	-	1	*
65-74									
White	111,971	0	-	2	*	0	-	0	-
Black	5,746	0	-	0	-	0	-	0	-
Hispanic	22,732	0	-	1	*	0	-	0	-
Asian/Other	19,214	0	-	0	-	0	-	0	-
Subtotal	159,663	0	-	3	*	0	-	0	-
75-84									
White	97,007	1	*	1	*	0	-	1	*
Black	2,931	0	-	0	-	0	-	0	-
Hispanic	11,718	1	*	0	-	0	-	0	-
Asian/Other	9,641	0	-	0	-	0	-	0	-
Subtotal	121,297	2	*	1	*	0	-	1	*
85+									
White	34,064	1	*	0	-	0	-	0	-
Black	841	0	-	0	-	0	-	0	-
Hispanic	3,147	0	-	0	-	0	-	0	-
Asian/Other	2,150	0	-	0	-	0	-	0	-
Subtotal	40,202	1	*	0	-	0	-	0	-
Total**	2,908,505	10	0.34	52	1.79	16	0.55	14	0.48

* Rate not calculated on less than five incidents.

** Totals include four victims with unknown age.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2001/02; Population Estimates, SANDAG.

Table 5.5: Self Inflicted Injury by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
Under 5									
White	41,064	0	-	39,256	0	-	80,320	0	-
Black	6,159	0	-	6,071	0	-	12,230	0	-
Hispanic	36,831	0	-	38,763	0	-	75,594	0	-
Asian/Other	15,351	0	-	14,328	0	-	29,679	0	-
Subtotal	99,405	0	-	98,418	0	-	197,823	0	-
5-9									
White	42,078	0	-	39,621	0	-	81,699	0	-
Black	7,122	0	-	6,696	0	-	13,818	0	-
Hispanic	40,440	0	-	39,642	0	-	80,082	0	-
Asian/Other	15,366	0	-	14,308	0	-	29,674	0	-
Subtotal	105,006	0	-	100,267	0	-	205,273	0	-
10-14									
White	45,218	1	*	42,918	0	-	88,136	1	*
Black	7,230	0	-	7,040	0	-	14,270	0	-
Hispanic	42,723	0	-	39,758	1	*	82,481	1	*
Asian/Other	15,311	0	-	14,299	0	-	29,610	0	-
Subtotal	110,482	1	*	104,015	1	*	214,497	2	*
15-19									
White	49,476	2	*	43,294	4	*	92,770	6	6.47
Black	7,260	0	-	6,111	0	-	13,371	0	-
Hispanic	40,392	2	*	35,135	0	-	75,527	2	*
Asian/Other	16,397	0	-	15,361	0	-	31,758	0	-
Subtotal	113,525	4	*	99,901	4	*	213,426	8	3.75
20-24									
White	59,695	7	11.73	44,514	2	*	104,209	9	8.64
Black	8,701	2	*	5,942	0	-	14,643	2	*
Hispanic	47,842	3	*	37,473	0	-	85,315	3	*
Asian/Other	17,504	0	-	16,025	0	-	33,529	0	-
Subtotal	133,742	12	8.97	103,954	2	*	237,696	14	5.89
25-34									
White	113,267	8	7.06	99,211	4	*	212,478	12	5.65
Black	15,039	4	*	11,492	0	-	26,531	4	*
Hispanic	79,845	6	7.51	75,548	2	*	155,393	8	5.15
Asian/Other	31,382	0	-	32,762	0	-	64,144	0	-
Subtotal	239,533	18	7.51	219,013	6	2.74	458,546	24	5.23
35-44									
White	133,872	5	3.73	122,362	5	4.09	256,234	10	3.90
Black	14,911	1	*	12,889	0	-	27,800	1	*
Hispanic	55,865	2	*	59,234	0	-	115,099	2	*
Asian/Other	28,663	0	-	31,703	0	-	60,366	0	-
Subtotal	233,311	8	3.43	226,188	5	2.21	459,499	13	2.83
45-54									
White	122,342	4	*	120,197	2	*	242,539	6	2.47
Black	9,329	0	-	8,795	0	-	18,124	0	-
Hispanic	31,466	4	*	35,986	1	*	67,452	5	7.41
Asian/Other	21,962	0	-	26,292	0	-	48,254	0	-
Subtotal	185,099	8	4.32	191,270	3	*	376,369	11	2.92

* Rate not calculated on less than five incidents.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego Trauma Registry and Medical Examiner's Data, FY 2001/02. Population estimates, SANDAG.

Table 5.5: Self Inflicted Injury by Age Group, Race/Ethnicity and Gender (Continued)

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
55-64									
White	75,943	2	*	77,964	3	*	153,907	5	3.25
Black	4,565	0	-	4,980	0	-	9,545	0	-
Hispanic	14,917	0	-	19,140	0	-	34,057	0	-
Asian/Other	11,908	0	-	14,797	0	-	26,705	0	-
Subtotal	107,333	2	*	116,881	3	*	224,214	5	2.23
65-74									
White	52,568	1	*	59,403	1	*	111,971	2	*
Black	2,660	0	-	3,086	0	-	5,746	0	-
Hispanic	9,626	0	-	13,106	0	-	22,732	0	-
Asian/Other	7,790	0	-	11,424	0	-	19,214	0	-
Subtotal	72,644	1	*	87,019	1	*	159,663	2	*
75-84									
White	40,522	1	*	56,485	0	-	97,007	1	*
Black	1,218	0	-	1,713	0	-	2,931	0	-
Hispanic	4,783	0	-	6,935	0	-	11,718	0	-
Asian/Other	4,092	0	-	5,549	0	-	9,641	0	-
Subtotal	50,615	1	*	70,682	0	-	121,297	1	*
85+									
White	11,737	1	*	22,327	0	-	34,064	1	*
Black	253	0	-	588	0	-	841	0	-
Hispanic	1,045	0	-	2,102	0	-	3,147	0	-
Asian/Other	825	1	*	1,325	0	-	2,150	1	*
Subtotal	13,860	2	*	26,342	0	-	40,202	2	*
Total	1,464,555	57	3.89	1,443,950	25	1.73	2,908,505	82	2.82

* Rate not calculated on less than five incidents.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego Trauma Registry and Medical Examiner's Data, FY 2001/02. Population estimates, SANDAG.

Table 5.6: Suicide by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
Under 5									
White	41,064	0	-	39,256	0	-	80,320	0	-
Black	6,159	0	-	6,071	0	-	12,230	0	-
Hispanic	36,831	0	-	38,763	0	-	75,594	0	-
Asian/Other	15,351	0	-	14,328	0	-	29,679	0	-
Subtotal	99,405	0	-	98,418	0	-	197,823	0	-
5-9									
White	42,078	0	-	39,621	0	-	81,699	0	-
Black	7,122	0	-	6,696	0	-	13,818	0	-
Hispanic	40,440	0	-	39,642	0	-	80,082	0	-
Asian/Other	15,366	0	-	14,308	0	-	29,674	0	-
Subtotal	105,006	0	-	100,267	0	-	205,273	0	-
10-14									
White	45,218	0	-	42,918	0	-	88,136	0	-
Black	7,230	0	-	7,040	0	-	14,270	0	-
Hispanic	42,723	0	-	39,758	0	-	82,481	0	-
Asian/Other	15,311	0	-	14,299	0	-	29,610	0	-
Subtotal	110,482	1	*	104,015	0	-	214,497	1	*
15-19									
White	49,476	4	*	43,294	3	*	92,770	7	7.55
Black	7,260	0	-	6,111	0	-	13,371	0	-
Hispanic	40,392	0	-	35,135	1	*	75,527	1	*
Asian/Other	16,397	1	*	15,361	0	-	31,758	1	*
Subtotal	113,525	5	4.40	99,901	4	*	213,426	9	4.22
20-24									
White	59,695	8	13.40	44,514	4	*	104,209	12	11.52
Black	8,701	0	-	5,942	1	*	14,643	1	*
Hispanic	47,842	2	*	37,473	0	-	85,315	2	*
Asian/Other	17,504	0	-	16,025	0	-	33,529	0	-
Subtotal	133,742	10	7.48	103,954	5	4.81	237,696	15	6.31
25-34									
White	113,267	17	15.01	99,211	4	*	212,478	21	9.88
Black	15,039	1	*	11,492	0	-	26,531	1	*
Hispanic	79,845	7	8.77	75,548	0	-	155,393	7	4.50
Asian/Other	31,382	3	*	32,762	2	*	64,144	5	7.79
Subtotal	239,533	28	11.69	219,013	6	2.74	458,546	34	7.41
35-44									
White	133,872	20	14.94	122,362	5	4.09	256,234	25	9.76
Black	14,911	4	*	12,889	0	-	27,800	4	*
Hispanic	55,865	2	*	59,234	0	-	115,099	2	*
Asian/Other	28,663	0	-	31,703	0	-	60,366	0	-
Subtotal	233,311	26	11.14	226,188	5	2.21	459,499	31	6.75
45-54									
White	122,342	23	18.80	120,197	5	4.16	242,539	28	11.54
Black	9,329	0	-	8,795	0	-	18,124	0	-
Hispanic	31,466	3	*	35,986	1	*	67,452	4	*
Asian/Other	21,962	0	-	26,292	0	-	48,254	0	-
Subtotal	185,099	26	14.05	191,270	6	3.14	376,369	32	8.50

* Rate not calculated on less than five incidents. ** Totals and subtotals include two males with unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego Trauma Registry and Medical Examiner's Data, FY 2001/02. Population estimates, SANDAG

Table 5.6: Suicide by Age Group, Race/Ethnicity and Gender (Continued)

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
55-64									
White	75,943	17	22.39	77,964	1	*	153,907	18	11.70
Black	4,565	0	-	4,980	0	-	9,545	0	-
Hispanic	14,917	2	*	19,140	0	-	34,057	2	*
Asian/Other	11,908	1	*	14,797	1	*	26,705	2	*
Subtotal	107,333	20	18.63	116,881	2	*	224,214	22	9.81
65-74									
White	52,568	8	15.22	59,403	2	*	111,971	10	8.93
Black	2,660	0	-	3,086	0	-	5,746	0	-
Hispanic	9,626	0	-	13,106	0	-	22,732	0	-
Asian/Other	7,790	0	-	11,424	0	-	19,214	0	-
Subtotal	72,644	8	11.01	87,019	2	*	159,663	10	6.26
75-84									
White	40,522	17	41.95	56,485	2	*	97,007	19	19.59
Black	1,218	0	-	1,713	0	-	2,931	-	-
Hispanic	4,783	0	-	6,935	0	-	11,718	-	-
Asian/Other	4,092	0	-	5,549	0	-	9,641	-	-
Subtotal	50,615	17	33.59	70,682	2	*	121,297	19	15.66
85+									
White	11,737	8	68.16	22,327	0	-	34,064	8	23.49
Black	253	0	-	588	0	-	841	0	-
Hispanic	1,045	0	-	2,102	0	-	3,147	0	-
Asian/Other	825	0	-	1,325	0	-	2,150	0	-
Subtotal	13,860	9	64.94	26,342	0	-	40,202	9	22.39
Total**	1,464,555	150	10.24	1,443,950	32	2.22	2,908,505	182	6.26

* Rate not calculated on less than five incidents.

** Totals and subtotals include two males with unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services.
San Diego Trauma Registry and Medical Examiner's Data, FY 2001/02. Population estimates, SANDAG

**Who is at Greatest Risk of Transportation Related Injury and Death?
(Rates = Number per 100,000 Population)**

- **Motor Vehicle Occupant Injury:** Young adults between 15 and 24 years of age had the highest rates of severe injury from MVO crashes (20-24 years: 108.1; 15-19 years: 107.3). Within these age groups, Hispanic males (15-19 years: 131.2; 20-24 years: 127.5) and White males (15-19 years: 129.4; 20-24 years: 124.0) had the highest injury rates. Among females, the highest rates were among 15-19 year old Blacks (114.6) and Asian/Others 65-74 years of age (113.8).
- **Motor Vehicle Occupant Death:** Hispanic males aged 20-24 (39.7) were at highest risk of dying in a motor vehicle occupant crash.
- **Motorcycle Crash Injury:** Black males aged 25-34 years (66.5), and White males aged 25-34 (45.0) and 20-24 (43.6) were at greatest risk of a severe injury due to a motorcycle crash.
- **Motorcycle Crash Death:** Number was too low to calculate all age, gender, and race/ethnicity breakdowns. **No Table Appears.**
- **Pedalcycle Crash Injury:** White males aged 10-14 and 15-19 (35.4 and 30.3) were at highest risk of severe injury following a pedalcycle crash, followed by 10-14 year old Hispanic males (28.1).
- **Pedalcycle Crash Death:** Number was too low to calculate all age, gender, and race/ethnicity breakdowns. **No Table Appears.**
- **Pedestrian Injury:** The highest rates of pedestrian injury were among Black males 25-34 years of age (39.9), followed by Hispanic males younger than five years (29.9).
- **Pedestrian Death:** Number was too low to calculate all age, gender, and race/ethnicity breakdowns. **No Table Appears.**

Table 5.7: Motor Vehicle Occupant Injury by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
Under 5									
White	41,064	5	12.18	39,256	3	*	80,320	8	9.96
Black	6,159	1	*	6,071	2	*	12,230	3	*
Hispanic	36,831	7	19.01	38,763	12	30.96	75,594	19	25.13
Asian/Other	15,351	2	*	14,328	0	-	29,679	2	*
Subtotal	99,405	15	15.09	98,418	17	17.27	197,823	32	16.18
5-9									
White	42,078	7	16.64	39,621	3	*	81,699	10	12.24
Black	7,122	1	*	6,696	0	-	13,818	1	*
Hispanic	40,440	6	14.84	39,642	14	35.32	80,082	20	24.97
Asian/Other	15,366	1	*	14,308	0	-	29,674	1	*
Subtotal	105,006	15	14.28	100,267	17	16.95	205,273	32	15.59
10-14									
White	45,218	8	17.69	42,918	9	20.97	88,136	17	19.29
Black	7,230	1	*	7,040	0	-	14,270	1	*
Hispanic	42,723	7	16.38	39,758	9	22.64	82,481	16	19.40
Asian/Other	15,311	0	-	14,299	0	-	29,610	0	-
Subtotal	110,482	16	14.48	104,015	18	17.31	214,497	34	15.85
15-19									
White	49,476	64	129.36	43,294	41	94.70	92,770	105	113.18
Black	7,260	7	96.42	6,111	7	114.55	13,371	14	104.70
Hispanic	40,392	53	131.21	35,135	21	59.77	75,527	74	97.98
Asian/Other	16,397	16	97.58	15,361	11	71.61	31,758	27	85.02
Subtotal	113,525	146	128.61	99,901	83	83.08	213,426	229	107.30
20-24									
White	59,695	74	123.96	44,514	44	98.85	104,209	118	113.23
Black	8,701	6	68.96	5,942	6	100.98	14,643	12	81.95
Hispanic	47,842	61	127.50	37,473	34	90.73	85,315	95	111.35
Asian/Other	17,504	12	68.56	16,025	11	68.64	33,529	23	68.60
Subtotal	133,742	157	117.39	103,954	100	96.20	237,696	257	108.12
25-34									
White	113,267	78	68.86	99,211	50	50.40	212,478	128	60.24
Black	15,039	8	53.20	11,492	5	43.51	26,531	13	49.00
Hispanic	79,845	77	96.44	75,548	31	41.03	155,393	108	69.50
Asian/Other	31,382	11	35.05	32,762	17	51.89	64,144	28	43.65
Subtotal	239,533	180	75.15	219,013	106	48.40	458,546	286	62.37
35-44									
White	133,872	68	50.79	122,362	40	32.69	256,234	108	42.15
Black	14,911	5	33.53	12,889	6	46.55	27,800	11	39.57
Hispanic	55,865	62	110.98	59,234	29	48.96	115,099	91	79.06
Asian/Other	28,663	15	52.33	31,703	5	15.77	60,366	20	33.13
Subtotal	233,311	155	66.43	226,188	81	35.81	459,499	236	51.36
45-54									
White	122,342	69	56.40	120,197	47	39.10	242,539	116	47.83
Black	9,329	1	*	8,795	5	56.85	18,124	6	33.11
Hispanic	31,466	26	82.63	35,986	22	61.13	67,452	48	71.16
Asian/Other	21,962	8	36.43	26,292	15	57.05	48,254	23	47.66
Subtotal	185,099	111	59.97	191,270	89	46.53	376,369	200	53.14

* Rate not calculated on less than five incidents.

** Total and subtotals by age include 32 males and 14 females with unspecified race/ethnicity

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2001/02; Population Estimates, SANDAG

**Table 5.7: Motor Vehicle Occupant Injury by Age Group, Race/Ethnicity and Gender
(Continued)**

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
55-64									
White	75,943	28	36.87	77,964	19	24.37	153,907	47	30.54
Black	4,565	1	*	4,980	1	*	9,545	2	*
Hispanic	14,917	12	80.45	19,140	12	62.70	34,057	24	70.47
Asian/Other	11,908	4	*	14,797	12	81.10	26,705	16	59.91
Subtotal	107,333	46	42.86	116,881	44	37.65	224,214	90	40.14
65-74									
White	52,568	21	39.95	59,403	23	38.72	111,971	44	39.30
Black	2,660	2	*	3,086	1	*	5,746	3	*
Hispanic	9,626	10	103.89	13,106	9	68.67	22,732	19	83.58
Asian/Other	7,790	6	77.02	11,424	13	113.80	19,214	19	98.89
Subtotal	72,644	39	53.69	87,019	48	55.16	159,663	87	54.49
75-84									
White	40,522	19	46.89	56,485	37	65.50	97,007	56	57.73
Black	1,218	1	*	1,713	1	*	2,931	2	*
Hispanic	4,783	4	*	6,935	2	*	11,718	6	51.20
Asian/Other	4,092	2	*	5,549	4	*	9,641	6	62.23
Subtotal	50,615	29	57.30	70,682	44	62.25	121,297	73	60.18
85+									
White	11,737	13	110.76	22,327	9	40.31	34,064	22	64.58
Black	253	0	-	588	0	-	841	0	-
Hispanic	1,045	2	*	2,102	1	*	3,147	3	*
Asian/Other	825	0	-	1,325	1	*	2,150	1	*
Subtotal	13,860	15	108.23	26,342	11	41.76	40,202	26	64.67
Total**	1,464,555	924	63.09	1,443,950	658	45.57	2,908,505	1,582	54.39

* Rate not calculated on less than five incidents.

** Total and subtotals by age include 32 males and 14 females with unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2001/02; Population Estimates, SANDAG

Table 5.8: Motor Vehicle Occupant Death by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
Under 5									
White	41,064	0	-	39,256	2	*	80,320	2	*
Black	6,159	0	-	6,071	0	-	12,230	0	-
Hispanic	36,831	0	-	38,763	0	-	75,594	0	-
Asian/Other	15,351	0	-	14,328	0	-	29,679	0	-
Subtotal	99,405	0	-	98,418	2	*	197,823	2	*
5-9									
White	42,078	1	*	39,621	0	-	81,699	1	*
Black	7,122	0	-	6,696	0	-	13,818	0	-
Hispanic	40,440	0	-	39,642	1	*	80,082	1	*
Asian/Other	15,366	0	-	14,308	0	-	29,674	0	-
Subtotal	105,006	1	*	100,267	1	*	205,273	2	*
10-14									
White	45,218	0	-	42,918	0	-	88,136	0	-
Black	7,230	0	-	7,040	0	-	14,270	0	-
Hispanic	42,723	0	-	39,758	0	-	82,481	0	-
Asian/Other	15,311	0	-	14,299	0	-	29,610	0	-
Subtotal	110,482	0	-	104,015	0	-	214,497	0	-
15-19									
White	49,476	10	20.21	43,294	4	*	92,770	14	15.09
Black	7,260	1	*	6,111	1	*	13,371	2	*
Hispanic	40,392	12	29.71	35,135	2	*	75,527	14	18.54
Asian/Other	16,397	2	*	15,361	0	-	31,758	2	*
Subtotal	113,525	25	22.02	99,901	7	7.01	213,426	32	14.99
20-24									
White	59,695	13	21.78	44,514	4	*	104,209	17	16.31
Black	8,701	4	*	5,942	0	-	14,643	4	*
Hispanic	47,842	19	39.71	37,473	2	*	85,315	21	24.61
Asian/Other	17,504	5	28.56	16,025	0	-	33,529	5	14.91
Subtotal	133,742	41	30.66	103,954	6	5.77	237,696	47	19.77
25-34									
White	113,267	8	7.06	99,211	3	*	212,478	11	5.18
Black	15,039	0	-	11,492	0	-	26,531	0	-
Hispanic	79,845	12	15.03	75,548	2	*	155,393	14	9.01
Asian/Other	31,382	4	*	32,762	1	*	64,144	5	7.79
Subtotal	239,533	24	10.02	219,013	6	2.74	458,546	30	6.54
35-44									
White	133,872	4	*	122,362	3	*	256,234	7	2.73
Black	14,911	1	*	12,889	1	*	27,800	2	*
Hispanic	55,865	3	*	59,234	2	*	115,099	5	4.34
Asian/Other	28,663	0	-	31,703	0	-	60,366	0	-
Subtotal	233,311	8	3.43	226,188	7	3.09	459,499	15	3.26
45-54									
White	122,342	12	9.81	120,197	1	*	242,539	13	5.36
Black	9,329	3	*	8,795	1	*	18,124	4	*
Hispanic	31,466	4	*	35,986	1	*	67,452	5	7.41
Asian/Other	21,962	2	*	26,292	1	*	48,254	3	*
Subtotal	185,099	22	11.89	191,270	4	*	376,369	26	6.91

* Rate not calculated on less than five incidents.

** Totals include one male with unspecified age. Subtotals by age include one male and two females with an unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2001/02; Population Estimates, SANDAG

**Table 5.8: Motor Vehicle Occupant Death by Age Group, Race/Ethnicity and Gender
(Continued)**

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
55-64									
White	75,943	5	6.58	77,964	2	*	153,907	7	4.55
Black	4,565	0	-	4,980	0	-	9,545	0	-
Hispanic	14,917	5	33.52	19,140	0	-	34,057	5	14.68
Asian/Other	11,908	2	*	14,797	0	-	26,705	2	*
Subtotal	107,333	12	11.18	116,881	2	*	224,214	14	6.24
65-74									
White	52,568	4	*	59,403	2	*	111,971	6	5.36
Black	2,660	0	-	3,086	0	-	5,746	0	-
Hispanic	9,626	2	*	13,106	0	-	22,732	2	*
Asian/Other	7,790	0	-	11,424	0	-	19,214	0	-
Subtotal	72,644	6	8.26	87,019	2	*	159,663	8	5.01
75-84									
White	40,522	8	19.74	56,485	3	*	97,007	11	11.34
Black	1,218	0	-	1,713	0	-	2,931	0	-
Hispanic	4,783	1	*	6,935	0	-	11,718	1	*
Asian/Other	4,092	2	*	5,549	0	-	9,641	2	*
Subtotal	50,615	11	21.73	70,682	4	*	121,297	15	12.37
85+									
White	11,737	2	*	22,327	2	*	34,064	4	*
Black	253	0	-	588	0	-	841	0	-
Hispanic	1,045	0	-	2,102	1	*	3,147	1	*
Asian/Other	825	0	-	1,325	0	-	2,150	0	-
Subtotal	13,860	2	*	26,342	3	*	40,202	5	12.44
Total**	1,464,555	153	10.45	1,443,950	44	3.05	2,908,505	197	6.77

* Rate not calculated on less than five incidents.

** Totals include one male with unspecified age. Subtotals by age include one male and two females with an unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2001/02; Population Estimates, SANDAG

Table 5.9: Motorcycle Injury by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
Under 5									
White	41,064	0	-	39,256	0	-	80,320	0	-
Black	6,159	0	-	6,071	0	-	12,230	0	-
Hispanic	36,831	1	*	38,763	0	-	75,594	1	*
Asian/Other	15,351	0	-	14,328	0	-	29,679	0	-
Subtotal	99,405	1	*	98,418	0	-	197,823	1	*
5-9									
White	42,078	2	*	39,621	0	-	81,699	2	*
Black	7,122	0	-	6,696	0	-	13,818	0	-
Hispanic	40,440	1	*	39,642	0	-	80,082	1	*
Asian/Other	15,366	0	-	14,308	0	-	29,674	0	-
Subtotal	105,006	4	*	100,267	0	-	205,273	4	*
10-14									
White	45,218	2	*	42,918	0	-	88,136	2	*
Black	7,230	0	-	7,040	0	-	14,270	0	-
Hispanic	42,723	1	*	39,758	0	-	82,481	1	*
Asian/Other	15,311	0	-	14,299	0	-	29,610	0	-
Subtotal	110,482	4	*	104,015	0	-	214,497	4	*
15-19									
White	49,476	11	22.23	43,294	2	*	92,770	13	14.01
Black	7,260	1	*	6,111	1	*	13,371	2	*
Hispanic	40,392	5	12.38	35,135	1	*	75,527	6	7.94
Asian/Other	16,397	1	*	15,361	0	-	31,758	1	*
Subtotal	113,525	18	15.86	99,901	4	*	213,426	22	10.31
20-24									
White	59,695	26	43.55	44,514	5	11.23	104,209	31	29.75
Black	8,701	3	*	5,942	0	-	14,643	3	*
Hispanic	47,842	5	10.45	37,473	0	-	85,315	5	5.86
Asian/Other	17,504	4	*	16,025	0	-	33,529	4	*
Subtotal	133,742	42	31.40	103,954	5	4.81	237,696	47	19.77
25-34									
White	113,267	51	45.03	99,211	4	*	212,478	55	25.89
Black	15,039	10	66.49	11,492	0	-	26,531	10	37.69
Hispanic	79,845	12	15.03	75,548	1	*	155,393	13	8.37
Asian/Other	31,382	9	28.68	32,762	1	*	64,144	10	15.59
Subtotal	239,533	84	35.07	219,013	6	2.74	458,546	90	19.63
35-44									
White	133,872	56	41.83	122,362	6	4.90	256,234	62	24.20
Black	14,911	0	-	12,889	0	-	27,800	0	-
Hispanic	55,865	6	10.74	59,234	1	*	115,099	7	6.08
Asian/Other	28,663	4	*	31,703	0	-	60,366	4	*
Subtotal	233,311	68	29.15	226,188	8	3.54	459,499	76	16.54
45-54									
White	122,342	49	40.05	120,197	7	5.82	242,539	56	23.09
Black	9,329	0	-	8,795	0	-	18,124	0	-
Hispanic	31,466	5	15.89	35,986	0	-	67,452	5	7.41
Asian/Other	21,962	0	-	26,292	0	-	48,254	0	-
Subtotal	185,099	56	30.25	191,270	8	4.18	376,369	64	17.00

* Rate not calculated on less than five incidents.

** Totals and subtotals include 14 males and two females with unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2001/02; Population Estimates, SANDAG

Table 5.9: Motorcycle Injury by Age Group, Race/Ethnicity and Gender (Continued)

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
55-64									
White	75,943	12	15.80	77,964	3	*	153,907	15	9.75
Black	4,565	1	*	4,980	0	-	9,545	1	*
Hispanic	14,917	0	-	19,140	0	-	34,057	0	-
Asian/Other	11,908	0	-	14,797	0	-	26,705	0	-
Subtotal	107,333	15	13.98	116,881	3	*	224,214	18	8.03
65-74									
White	52,568	4	*	59,403	0	-	111,971	4	*
Black	2,660	0	-	3,086	0	-	5,746	0	-
Hispanic	9,626	1	*	13,106	0	-	22,732	1	*
Asian/Other	7,790	0	-	11,424	0	-	19,214	0	-
Subtotal	72,644	5	6.88	87,019	0	-	159,663	5	3.13
75-84									
White	40,522	2	*	56,485	1	*	97,007	3	*
Black	1,218	0	-	1,713	0	-	2,931	0	-
Hispanic	4,783	1	*	6,935	0	-	11,718	1	*
Asian/Other	4,092	0	-	5,549	0	-	9,641	0	-
Subtotal	50,615	3	*	70,682	1	*	121,297	4	*
85+									
White	11,737	0	-	22,327	1	*	34,064	1	*
Black	253	0	-	588	0	-	841	0	-
Hispanic	1,045	0	-	2,102	0	-	3,147	0	-
Asian/Other	825	0	-	1,325	0	-	2,150	0	-
Subtotal	13,860	0	-	26,342	1	*	40,202	1	*
Total**	1,464,555	300	20.48	1,443,950	36	2.49	2,908,505	336	11.55

*Rate not calculated on less than five incidents.

** Totals and subtotals include 14 males and two females with unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego Trauma Registry and Medical Examiner's Data, FY 2001/02. Population estimates, SANDAG.

Table 5.10: Pedalcycle Injury by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
Under 5									
White	41,064	1	*	39,256	0	-	80,320	1	*
Black	6,159	0	-	6,071	0	-	12,230	0	-
Hispanic	36,831	2	*	38,763	0	-	75,594	2	*
Asian/Other	15,351	0	-	14,328	0	-	29,679	0	-
Subtotal	99,405	3	*	98,418	0	-	197,823	3	*
5-9									
White	42,078	4	*	39,621	1	*	81,699	5	6.12
Black	7,122	2	*	6,696	0	-	13,818	2	*
Hispanic	40,440	8	19.78	39,642	4	*	80,082	12	14.98
Asian/Other	15,366	4	*	14,308	0	-	29,674	4	*
Subtotal	105,006	18	17.14	100,267	5	4.99	205,273	23	11.20
10-14									
White	45,218	16	35.38	42,918	1	*	88,136	17	19.29
Black	7,230	4	*	7,040	0	-	14,270	4	*
Hispanic	42,723	12	28.09	39,758	4	*	82,481	16	19.40
Asian/Other	15,311	4	*	14,299	0	-	29,610	4	*
Subtotal	110,482	36	32.58	104,015	5	4.81	214,497	41	19.11
15-19									
White	49,476	15	30.32	43,294	2	*	92,770	17	18.32
Black	7,260	0	-	6,111	0	-	13,371	0	-
Hispanic	40,392	4	*	35,135	1	*	75,527	5	6.62
Asian/Other	16,397	0	-	15,361	0	-	31,758	0	-
Subtotal	113,525	19	16.74	99,901	3	*	213,426	22	10.31
20-24									
White	59,695	13	21.78	44,514	0	-	104,209	13	12.47
Black	8,701	0	-	5,942	0	-	14,643	0	-
Hispanic	47,842	2	*	37,473	0	-	85,315	2	*
Asian/Other	17,504	0	-	16,025	0	-	33,529	0	-
Subtotal	133,742	15	11.22	103,954	0	-	237,696	15	6.31
25-34									
White	113,267	7	6.18	99,211	7	7.06	212,478	14	6.59
Black	15,039	0	-	11,492	0	-	26,531	0	-
Hispanic	79,845	6	7.51	75,548	0	-	155,393	6	3.86
Asian/Other	31,382	2	*	32,762	0	-	64,144	2	*
Subtotal	239,533	15	6.26	219,013	7	3.20	458,546	22	4.80
35-44									
White	133,872	26	19.42	122,362	2	*	256,234	28	10.93
Black	14,911	0	-	12,889	0	-	27,800	0	-
Hispanic	55,865	4	*	59,234	1	*	115,099	5	4.34
Asian/Other	28,663	1	*	31,703	2	*	60,366	3	*
Subtotal	233,311	33	14.14	226,188	5	2.21	459,499	38	8.27
45-54									
White	122,342	15	12.26	120,197	5	4.16	242,539	20	8.25
Black	9,329	0	-	8,795	0	-	18,124	0	-
Hispanic	31,466	6	19.07	35,986	0	-	67,452	6	8.90
Asian/Other	21,962	0	-	26,292	0	-	48,254	0	-
Subtotal	185,099	21	11.35	191,270	5	2.61	376,369	26	6.91

*Rate not calculated on less than five incidents.

** Totals and subtotals include 3 males with unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego Trauma Registry and Medical Examiner's Data, FY 2001/02. Population estimates, SANDAG.

Table 5.10: Pedalcycle Injury by Age Group, Race/Ethnicity and Gender (Continued)

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
55-64									
White	75,943	8	10.53	77,964	3	*	153,907	11	7.15
Black	4,565	2	*	4,980	0	-	9,545	2	*
Hispanic	14,917	4	*	19,140	0	-	34,057	4	*
Asian/Other	11,908	1	*	14,797	0	-	26,705	1	*
Subtotal	107,333	15	13.98	116,881	3	*	224,214	18	8.03
65-74									
White	52,568	6	11.41	59,403	1	*	111,971	7	6.25
Black	2,660	0	-	3,086	0	-	5,746	0	-
Hispanic	9,626	0	-	13,106	0	-	22,732	0	-
Asian/Other	7,790	0	-	11,424	0	-	19,214	0	-
Subtotal	72,644	7	9.64	87,019	1	*	159,663	8	5.01
75-84									
White	40,522	6	14.81	56,485	0	-	97,007	6	6.19
Black	1,218	0	-	1,713	0	-	2,931	0	-
Hispanic	4,783	0	-	6,935	0	-	11,718	0	-
Asian/Other	4,092	1	*	5,549	0	-	9,641	1	*
Subtotal	50,615	7	13.83	70,682	0	-	121,297	7	5.77
85+									
White	11,737	0	-	22,327	0	-	34,064	0	-
Black	253	0	-	588	0	-	841	0	-
Hispanic	1,045	0	-	2,102	0	-	3,147	0	-
Asian/Other	825	0	-	1,325	0	-	2,150	0	-
Subtotal	13,860	0	-	26,342	0	-	40,202	0	-
Total**	1,464,555	189	12.90	1,443,950	34	2.35	2,908,505	223	7.67

*Rate not calculated on less than five incidents.

** Totals and subtotals include 3 males with unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego Trauma Registry and Medical Examiner's Data, FY 2001/02. Population estimates, SANDAG.

Table 5.11: Pedestrian Injury by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
Under 5									
White	41,064	4	*	39,256	2	*	80,320	6	7.47
Black	6,159	4	*	6,071	0	-	12,230	4	*
Hispanic	36,831	11	29.87	38,763	4	*	75,594	15	19.84
Asian/Other	15,351	1	*	14,328	0	-	29,679	1	*
Subtotal	99,405	20	20.12	98,418	6	6.10	197,823	26	13.14
5-9									
White	42,078	4	*	39,621	1	*	81,699	5	6.12
Black	7,122	1	*	6,696	2	*	13,818	3	*
Hispanic	40,440	9	22.26	39,642	3	*	80,082	12	14.98
Asian/Other	15,366	3	*	14,308	1	*	29,674	4	*
Subtotal	105,006	17	16.19	100,267	7	6.98	205,273	24	11.69
10-14									
White	45,218	5	11.06	42,918	2	*	88,136	7	7.94
Black	7,230	1	*	7,040	0	-	14,270	1	*
Hispanic	42,723	9	21.07	39,758	4	*	82,481	13	15.76
Asian/Other	15,311	3	*	14,299	3	*	29,610	6	20.26
Subtotal	110,482	19	17.20	104,015	9	8.65	214,497	28	13.05
15-19									
White	49,476	7	14.15	43,294	4	*	92,770	11	11.86
Black	7,260	4	*	6,111	1	*	13,371	5	37.39
Hispanic	40,392	7	17.33	35,135	4	*	75,527	11	14.56
Asian/Other	16,397	2	*	15,361	2	*	31,758	4	*
Subtotal	113,525	20	17.62	99,901	11	11.01	213,426	31	14.52
20-24									
White	59,695	8	13.40	44,514	3	*	104,209	11	10.56
Black	8,701	2	*	5,942	0	-	14,643	2	*
Hispanic	47,842	14	29.26	37,473	3	*	85,315	17	19.93
Asian/Other	17,504	0	-	16,025	1	*	33,529	1	*
Subtotal	133,742	24	17.94	103,954	7	6.73	237,696	31	13.04
25-34									
White	113,267	13	11.48	99,211	8	8.06	212,478	21	9.88
Black	15,039	6	39.90	11,492	3	*	26,531	9	33.92
Hispanic	79,845	8	10.02	75,548	2	*	155,393	10	6.44
Asian/Other	31,382	2	*	32,762	2	*	64,144	4	*
Subtotal	239,533	30	12.52	219,013	15	6.85	458,546	45	9.81
35-44									
White	133,872	14	10.46	122,362	6	4.90	256,234	20	7.81
Black	14,911	2	*	12,889	0	-	27,800	2	*
Hispanic	55,865	13	23.27	59,234	7	11.82	115,099	20	17.38
Asian/Other	28,663	0	-	31,703	2	*	60,366	2	*
Subtotal	233,311	30	12.86	226,188	15	6.63	459,499	45	9.79
45-54									
White	122,342	13	10.63	120,197	7	5.82	242,539	20	8.25
Black	9,329	1	*	8,795	1	*	18,124	2	*
Hispanic	31,466	5	15.89	35,986	4	*	67,452	9	13.34
Asian/Other	21,962	4	*	26,292	2	*	48,254	6	12.43
Subtotal	185,099	23	12.43	191,270	14	7.32	376,369	37	9.83

* Rate not calculated on less than five incidents.

**Totals and subtotals include three males and one female of unspecified race.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2001/02; Population Estimates, SANDAG

Table 5.11: Pedestrian Injury by Age Group, Race/Ethnicity and Gender (Continued)

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
55-64									
White	75,943	6	7.90	77,964	2	*	153,907	8	5.20
Black	4,565	1	*	4,980	0	-	9,545	1	*
Hispanic	14,917	4	*	19,140	7	36.57	34,057	11	32.30
Asian/Other	11,908	2	*	14,797	0	-	26,705	2	*
Subtotal	107,333	13	12.11	116,881	9	7.70	224,214	22	9.81
65-74									
White	52,568	6	11.41	59,403	6	10.10	111,971	12	10.72
Black	2,660	0	-	3,086	0	-	5,746	0	-
Hispanic	9,626	2	*	13,106	2	*	22,732	4	*
Asian/Other	7,790	1	*	11,424	2	*	19,214	3	*
Subtotal	72,644	9	12.39	87,019	11	12.64	159,663	20	12.53
75-84									
White	40,522	5	12.34	56,485	4	*	97,007	9	9.28
Black	1,218	0	-	1,713	0	-	2,931	0	-
Hispanic	4,783	1	*	6,935	1	*	11,718	2	*
Asian/Other	4,092	1	*	5,549	0	-	9,641	1	*
Subtotal	50,615	7	13.83	70,682	5	7.07	121,297	12	9.89
85+									
White	11,737	2	*	22,327	1	*	34,064	3	*
Black	253	0	-	588	0	-	841	0	-
Hispanic	1,045	0	-	2,102	0	-	3,147	0	-
Asian/Other	825	0	-	1,325	0	-	2,150	0	-
Subtotal	13,860	2	*	26,342	1	*	40,202	3	*
Total**	1,464,555	214	14.61	1,443,950	110	7.62	2,908,505	324	11.14

* Rate not calculated on less than five incidents.

**Totals and subtotals include three males and one female of unspecified race.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2001/02; Population Estimates, SANDAG

Who is at Greatest Risk of Other Unintentional Death and Injury (Rates = Number per 100,000 Population)

- **Severe Injuries due to Falls:** The highest rates of severe injuries from falls were seen in the oldest age groups. Among those 85 and over, Asian/Other women (452.8), White men (230.0), and White women (206.0) had the highest rates.
- **Deaths due to falls:** Due to the low number of deaths due to falls, rates could only be calculated for White men aged 45-54 (4.1), 55-64 (10.5), 65-74 (20.9), 75-84 (56.8), 85+ (144.8), and for White women aged 75-84 (40.7), and 85 and older (85.1). **No table appears.**
- **Severe Injury due to Sports and Recreation:** The highest rates of Sports/Recreation injury were in White males 10-14 years (66.4), 15-19 years (52.6) and 5-9 years (45.2).
- **Death due to Sports and Recreation:** Number was too low to calculate all age, gender, and race/ethnicity breakdowns. **No Table Appears.**

Table 5.12: Fall Injury by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
Under 5									
White	41,064	22	53.57	39,256	14	35.66	80,320	36	44.82
Black	6,159	3	*	6,071	2	*	12,230	5	40.88
Hispanic	36,831	36	97.74	38,763	17	43.86	75,594	53	70.11
Asian/Other	15,351	3	*	14,328	2	*	29,679	5	16.85
Subtotal	99,405	65	65.39	98,418	35	35.56	197,823	100	50.55
5-9									
White	42,078	13	30.90	39,621	1	*	81,699	14	17.14
Black	7,122	3	*	6,696	2	*	13,818	5	36.18
Hispanic	40,440	15	37.09	39,642	8	20.18	80,082	23	28.72
Asian/Other	15,366	2	*	14,308	1	*	29,674	3	*
Subtotal	105,006	33	31.43	100,267	12	11.97	205,273	45	21.92
10-14									
White	45,218	12	26.54	42,918	9	20.97	88,136	21	23.83
Black	7,230	1	*	7,040	0	-	14,270	1	*
Hispanic	42,723	11	25.75	39,758	3	*	82,481	14	16.97
Asian/Other	15,311	1	*	14,299	0	-	29,610	1	*
Subtotal	110,482	26	23.53	104,015	12	11.54	214,497	38	17.72
15-19									
White	49,476	18	36.38	43,294	4	*	92,770	22	23.71
Black	7,260	0	-	6,111	0	-	13,371	0	-
Hispanic	40,392	6	14.85	35,135	4	*	75,527	10	13.24
Asian/Other	16,397	4	*	15,361	2	*	31,758	6	18.89
Subtotal	113,525	29	25.55	99,901	10	10.01	213,426	39	18.27
20-24									
White	59,695	22	36.85	44,514	7	15.73	104,209	29	27.83
Black	8,701	2	*	5,942	1	*	14,643	3	*
Hispanic	47,842	12	25.08	37,473	2	*	85,315	14	16.41
Asian/Other	17,504	2	*	16,025	2	*	33,529	4	*
Subtotal	133,742	39	29.16	103,954	12	11.54	237,696	51	21.46
25-34									
White	113,267	39	34.43	99,211	8	8.06	212,478	47	22.12
Black	15,039	5	33.25	11,492	1	*	26,531	6	22.62
Hispanic	79,845	42	52.60	75,548	2	*	155,393	44	28.32
Asian/Other	31,382	4	*	32,762	2	*	64,144	6	9.35
Subtotal	239,533	91	37.99	219,013	13	5.94	458,546	104	22.68
35-44									
White	133,872	58	43.32	122,362	14	11.44	256,234	72	28.10
Black	14,911	9	60.36	12,889	2	*	27,800	11	39.57
Hispanic	55,865	39	69.81	59,234	6	10.13	115,099	45	39.10
Asian/Other	28,663	5	17.44	31,703	1	*	60,366	6	9.94
Subtotal	233,311	111	47.58	226,188	24	10.61	459,499	135	29.38
45-54									
White	122,342	62	50.68	120,197	29	24.13	242,539	91	37.52
Black	9,329	6	64.32	8,795	0	-	18,124	6	33.11
Hispanic	31,466	23	73.09	35,986	3	*	67,452	26	38.55
Asian/Other	21,962	7	31.87	26,292	3	*	48,254	10	20.72
Subtotal	185,099	100	54.03	191,270	35	18.30	376,369	135	35.87

* Rate not calculated on less than five incidents.

**Totals and subtotals include 18 males and seven females of unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2001/02; Population Estimates, SANDAG

Table 5.12: Fall Injury by Age Group, Race/Ethnicity and Gender (Continued)

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
55-64									
White	75,943	37	48.72	77,964	14	17.96	153,907	51	33.14
Black	4,565	2	*	4,980	0	-	9,545	2	*
Hispanic	14,917	12	80.45	19,140	3	*	34,057	15	44.04
Asian/Other	11,908	2	*	14,797	2	*	26,705	4	*
Subtotal	107,333	56	52.17	116,881	19	16.26	224,214	75	33.45
65-74									
White	52,568	38	72.29	59,403	30	50.50	111,971	68	60.73
Black	2,660	2	*	3,086	2	*	5,746	4	*
Hispanic	9,626	4	*	13,106	3	*	22,732	7	30.79
Asian/Other	7,790	6	77.02	11,424	4	*	19,214	10	52.05
Subtotal	72,644	50	68.83	87,019	40	45.97	159,663	90	56.37
75-84									
White	40,522	70	172.75	56,485	63	111.53	97,007	133	137.10
Black	1,218	2	*	1,713	0	-	2,931	2	*
Hispanic	4,783	5	104.54	6,935	6	86.52	11,718	11	93.87
Asian/Other	4,092	4	*	5,549	4	*	9,641	8	82.98
Subtotal	50,615	87	171.89	70,682	76	107.52	121,297	163	134.38
85+									
White	11,737	27	230.04	22,327	46	206.03	34,064	73	214.30
Black	253	1	*	588	1	*	841	2	*
Hispanic	1,045	3	*	2,102	3	*	3,147	6	190.66
Asian/Other	825	1	*	1,325	6	452.83	2,150	7	325.58
Subtotal	13,860	34	245.31	26,342	58	220.18	40,202	92	228.84
Total**	1,464,555	721	49.23	1,443,950	346	23.96	2,908,505	1,067	36.69

* Rate not calculated on less than five incidents.

**Totals and subtotals include 18 males and seven females of unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2001/02; Population Estimates, SANDAG

Table 5.13: Sports/Recreation Injury by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
Under 5									
White	41,064	4	*	39,256	3	*	80,320	7	8.72
Black	6,159	0	-	6,071	0	-	12,230	0	-
Hispanic	36,831	4	*	38,763	2	*	75,594	6	7.94
Asian/Other	15,351	0	-	14,328	0	-	29,679	0	-
Subtotal	99,405	8	8.05	98,418	5	5.08	197,823	13	6.57
5-9									
White	42,078	19	45.15	39,621	4	*	81,699	23	28.15
Black	7,122	1	*	6,696	0	-	13,818	1	*
Hispanic	40,440	4	*	39,642	3	*	80,082	7	8.74
Asian/Other	15,366	0	-	14,308	0	-	29,674	0	-
Subtotal	105,006	26	24.76	100,267	7	6.98	205,273	33	16.08
10-14									
White	45,218	30	66.35	42,918	6	13.98	88,136	36	40.85
Black	7,230	2	*	7,040	1	*	14,270	3	*
Hispanic	42,723	14	32.77	39,758	7	17.61	82,481	21	25.46
Asian/Other	15,311	3	*	14,299	0	-	29,610	3	*
Subtotal	110,482	49	44.35	104,015	14	13.46	214,497	63	29.37
15-19									
White	49,476	26	52.55	43,294	5	11.55	92,770	31	33.42
Black	7,260	2	*	6,111	0	-	13,371	2	*
Hispanic	40,392	10	24.76	35,135	3	*	75,527	13	17.21
Asian/Other	16,397	2	*	15,361	0	-	31,758	2	*
Subtotal	113,525	41	36.12	99,901	8	8.01	213,426	49	22.96
20-24									
White	59,695	16	26.80	44,514	6	13.48	104,209	22	21.11
Black	8,701	0	-	5,942	0	-	14,643	0	-
Hispanic	47,842	6	12.54	37,473	0	-	85,315	6	7.03
Asian/Other	17,504	1	*	16,025	1	*	33,529	2	*
Subtotal	133,742	23	17.20	103,954	7	6.73	237,696	30	12.62
25-34									
White	113,267	19	16.77	99,211	11	11.09	212,478	30	14.12
Black	15,039	1	*	11,492	0	-	26,531	1	*
Hispanic	79,845	7	8.77	75,548	0	-	155,393	7	4.50
Asian/Other	31,382	5	15.93	32,762	0	-	64,144	5	7.79
Subtotal	239,533	32	13.36	219,013	11	5.02	458,546	43	9.38
35-44									
White	133,872	24	17.93	122,362	12	9.81	256,234	36	14.05
Black	14,911	0	-	12,889	0	-	27,800	0	-
Hispanic	55,865	5	8.95	59,234	1	*	115,099	6	5.21
Asian/Other	28,663	0	-	31,703	0	-	60,366	0	-
Subtotal	233,311	30	12.86	226,188	13	5.75	459,499	43	9.36
45-54									
White	122,342	11	8.99	120,197	7	5.82	242,539	18	7.42
Black	9,329	0	-	8,795	0	-	18,124	0	-
Hispanic	31,466	0	-	35,986	0	-	67,452	0	-
Asian/Other	21,962	0	-	26,292	0	-	48,254	0	-
Subtotal	185,099	11	5.94	191,270	7	3.66	376,369	18	4.78

* Rate not calculated on less than five incidents.

**Totals and subtotals include four males with unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2001/02; Population Estimates, SANDAG

Table 5.13: Sports/Recreation Injury by Age Group, Race/Ethnicity and Gender (Continued)

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
55-64									
White	75,943	2	*	77,964	4	*	153,907	6	3.90
Black	4,565	0	-	4,980	0	-	9,545	0	-
Hispanic	14,917	0	-	19,140	1	*	34,057	1	*
Asian/Other	11,908	0	-	14,797	0	-	26,705	0	-
Subtotal	107,333	2	*	116,881	5	4.28	224,214	7	3.12
65-74									
White	52,568	3	*	59,403	0	-	111,971	3	*
Black	2,660	0	-	3,086	0	-	5,746	0	-
Hispanic	9,626	0	-	13,106	0	-	22,732	0	-
Asian/Other	7,790	0	-	11,424	0	-	19,214	0	-
Subtotal	72,644	3	*	87,019	0	-	159,663	3	*
75-84									
White	40,522	0	-	56,485	0	-	97,007	0	-
Black	1,218	0	-	1,713	0	-	2,931	0	-
Hispanic	4,783	0	-	6,935	0	-	11,718	0	-
Asian/Other	4,092	0	-	5,549	0	-	9,641	0	-
Subtotal	50,615	0	-	70,682	0	-	121,297	0	-
85+									
White	11,737	0	-	22,327	0	-	34,064	0	-
Black	253	0	-	588	0	-	841	0	-
Hispanic	1,045	0	-	2,102	0	-	3,147	0	-
Asian/Other	825	0	-	1,325	0	-	2,150	0	-
Subtotal	13,860	0	-	26,342	0	-	40,202	0	-
Total**	1,464,555	225	15.36	1,443,950	77	5.33	2,908,505	302	10.38

* Rate not calculated on less than five incidents.

**Totals and subtotals include four males with unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2001/02; Population Estimates, SANDAG

Abbreviated Injury Scale (AIS): A scale created to describe individual traumatic injuries. AIS scores obtain a value from each of 6 body areas: 1) head or neck; 2) face; 3) chest; 4) abdomen/pelvic contents; 5) extremities/pelvic girdle; and 6) external. For each body region a severity code is assigned which describes the injuries: 1) minor; 2) moderate; 3) serious; 4) severe; 5) critical; 6) maximum injury with little chance of survival, and 9) unknown.

Confidence Level (95%): Statistical measure used when comparing the differences between a set of numbers to determine if they are statistically significant or not. A 95% confidence level was used in this report ($p < .05$), therefore you could say that there was less than a five percent chance that the differences were due to chance if they were reported as statistically significant.

Geographic Areas: The geographic areas used in the analysis of the data are the Major Statistical Areas (MSA) and the subregional areas (SRA) of San Diego County as defined by the San Diego Association of Governments (SANDAG). See Appendix D.

Mechanism of Injury: This report is based on classifications of injury etiology as follows:

Motor Vehicle Occupant	driver or passenger, not motorcycle
Motorcycle	driver or passenger of motorcycle/moped
Pedalcycle	pedalcyclist, traffic or non-traffic
Pedestrian	person involved in a motor vehicle collision who was on foot, or in or operating a pedestrian conveyance, e.g., baby carriage, roller skates, wheelchair, scooter, skateboard.
Other vehicle	railway accident motor vehicle other or unknown other road vehicle aircraft other vehicle
Falls	fall, steps fall, ladder/scaffold fall, structure fall, into hole/swimming pool, etc. fall, cliff fall from standing (must be witnessed) other fall/unknown
Self Inflicted/Suicides	suicide attempt (hanging, suffocation) self inflicted firearms/ explosive self inflicted cutting/piercing self inflicted jump from high place

Technical Notes

	self inflicted suicide attempt, other
Assaults/Homicides	fall, pushed from vehicle assault, unarmed fight, brawl, etc. rape assault by firearm/explosive assault by cutting/piercing child battering other assault/suspected non-accidental assault by multiple causes (firearms/stabbing/etc.)
Sports & Recreation Activities	scooter/skateboard/carriage/snow skier off road vehicle riding animals water sports sports (hit, kicked or struck) fall from tree/playground equipment
Other	dog bite injured by animal, not dog bite struck by falling object struck by machinery/object (caught, crushed, cut, etc.) cutting instruments (lawn mowers, power tools, appliances, knives, swords, saws, glass) explosion of pressure vessel BB/pellet gun (assault and accidental) bow/cross bow (assault and accidental) firearms (accident, not assault) explosive material (fireworks, gas, bomb, accident) hot substance, caustic, steam electric current cave in (dirt, structures) other unspecified accident legal intervention
Unknown	mechanism left blank or "unknown". undetermined intent of injury

Incidence: The number of occurrences for the specific injury type. Incidence should not be used to compare different racial/ethnic groups, age groups or geographic areas. For these comparisons, use rates, which take into account differences in population sizes.

Injury: For the purposes of this report injury refers to unintentional or intentional damage to the body resulting from acute exposure to mechanical energy.

Injury Severity Score (ISS): A modification of the AIS, the ISS is an anatomic score developed to identify multiple traumatic injuries. The ISS is obtained by calculating the sum of the squared values of the highest AIS code in each of the three most severely injured regions of the body. AIS scores up to 5 are squared, so that the highest ISS attainable is 75. An AIS score of 6 in any body region is assigned as ISS of 75.

Race/Ethnicity: Race/ethnicity is calculated for this report as Hispanic, non-Hispanic White, non-Hispanic Black, non-Hispanic Asian/Other based on SANDAG estimates of population for January 2001.

Rate: Calculated as incidence per 100,000 population. Rates were calculated using January 2001 population estimates provided by the San Diego Association of Governments (SANDAG). Rates were not calculated for categories with less than five occurrences, due to instability.

$$\text{Rate} = (\text{Incidence/Population}) \times 100,000$$

SANDAG: San Diego Association of Governments.

Scene Time: The total time the patient was not actually being transported to either the receiving hospital or the rendezvous point (reflects the total time an ambulance spends on scene).

Source of Data: All incidence data is from the San Diego County Trauma Registry. This data includes both deaths and severe traumatic injuries. To be included in the trauma registry a patient must suffer from a traumatic injury and: have a length of stay in the hospital greater than or equal to 24 hours; be an interfacility transfer from or to an acute care facility; or die from the injury. A patient who dies of a traumatic injury on scene, at a non-trauma facility, or at a trauma center is included in the Medical Examiner's database.

Statistical Significance: A number is said to be statistically significant if it is "significantly" larger or smaller than would be expected by chance. For this report statistical significance is measured using a 95% confidence level, meaning that with 95% certainty you can say that the numbers did not occur by chance, giving us a statistical significance of $p < .05$.

Trauma Center Monthly Reports: Summary reports submitted to EMS by each designated trauma center hospital. These forms are intended to serve as a record of the hospital's trauma service activity for that month. This activity includes admissions, discharges, deaths, mode of arrival and final dispositions.

Years Potential Life Lost (YPLL): YPLL calculates the years of life lost due to a death using the average life expectancy as an estimate for the total length of life. Life expectancy was derived from the Vital Statistics Life Tables (Centers for Disease Control and Prevention). For age groups, YPLL was calculated using the life expectancy for the median age for the group. $\text{YPLL} = (\text{Expected years of life} - \text{median age}) \times \text{Number of deaths}$

Table A.1: Leading Causes of Death and Severe Injury by San Diego MSA

MSA	Rank	Death	Rank	Severe Injury
Central	1	Suicide	1	Fall
	2	Homicide	2	MV Occupant
	3	Fall	3	Assault
North City	1	Fall	1	Fall
	2	MV Occupant	2	MV Occupant
	3	Suicide	3	Assault
South Suburban	1	MV Occupant	1	MV Occupant
	2	Suicide	2	Fall
	3*	Fall; Pedestrian	3	Assault
East Suburban	1	Suicide	1	MV Occupant
	2	MV Occupant	2	Fall
	3	Fall	3*	Assault; Pedestrian
North County West	1	Suicide	1	MV Occupant
	2	MV Occupant	2	Fall
	3	Fall	3	Assault
North County East	1	MV Occupant	1	Fall
	2	Fall	2	MV Occupant
	3	Suicide	3	Pedestrian
East County	1	MV Occupant	1	MV Occupant
	2	Motorcycle	2	Sports/Recreation
	3	Suicide	3*	Fall; Motorcycle; Pedalcycle; Other Vehicle

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data: FY 2001/02.

* Indicates a tie.

Table A.2: Leading Causes of Death and Severe Injury by Age Group

Age Group in Years	Rank	Death	Rank	Severe Injury
0-4	1	Homicide	1	Falls
	2*	MV Occupant	2	MV Occupant
		Pedestrian	3	Pedestrian
5-9	1*	Pedestrian	1	Falls
		MV Occupant	2	Sport/Rec
		Homicide	3	MV Occupant
10-14	1	Pedestrian	1	Sport/Rec
	2*	Suicide	2	Pedalcycle
		Sport/Rec	3	Falls
15-19	1	MV Occupant	1	MV Occupant
	2	Homicide	2	Assaults
	3	Suicide	3	Sport/Rec
20-24	1	MV Occupant	1	MV Occupant
	2	Suicide	2	Assault
	3	Homicide	3	Falls
25-34	1	Suicide	1	MV Occupant
	2	MV Occupant	2	Assault
	3	Homicide	3	Falls
35-44	1	Suicide	1	MV Occupant
	2	Homicide	2	Falls
	3	MV Occupant	3	Assaults
45-54	1	Suicide	1	MV Occupant
	2	MV Occupant	2	Falls
	3	Pedestrian	3	Motorcycle
55-64	1	Suicide	1	MV Occupant
	2	MV Occupant	2	Falls
	3*	Fall; Pedestrian	3	Pedestrian
65-74	1	Falls	1	Falls
	2	Suicide	2	MV Occupant
	3	Pedestrian	3	Pedestrian
75-84	1	Falls	1	Falls
	2	Suicide	2	MV Occupant
	3	MV Occupant	3	Pedestrian
85+	1	Falls	1	Falls
	2	Suicide	2	MV Occupant
	3*	MV Occupant; Pedestrian	3	Pedestrian

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data: FY 2001/02.

* Indicates a tie.

Table B.1: Transportation Related Injury and Death by Mechanism and San Diego County Subregional Area

MSA	SRA	Population	MV Occupant		Motorcycle		Pedalcycle	
			Injury	Death	Injury	Death	Injury	Death
CENTRAL	CentralSanDiego	156,762	54	9	8	1	8	1
	Peninsula	60,731	6	1	3	0	1	0
	Coronado	25,877	4	0	1	0	1	0
	NationalCity	57,521	20	3	2	0	1	0
	SoutheastSanDiego	158,059	30	1	5	0	4	0
	Mid-City	170,026	42	0	9	0	6	1
	TOTAL	628,976	156	14	28	1	21	2
NORTH CITY	KearnyMesa	146,862	41	13	6	2	4	0
	Coastal	76,667	30	3	4	0	6	0
	University	51,865	9	2	1	1	1	1
	DelMar-MiraMesa	142,541	13	2	3	0	2	0
	NorthSanDiego	85,682	4	5	0	2	1	0
	Poway	84,979	4	2	0	0	0	2
	Miramar	6,354	0	0	2	0	0	0
	Elliott-Navajo	87,167	6	4	0	0	0	1
	TOTAL	682,117	107	31	16	5	14	4
SOUTH SUBURBAN	Sweetwater	90,580	8	2	3	0	1	0
	ChulaVista	109,532	23	9	5	0	3	1
	SouthBay	127,776	26	8	3	1	2	0
	TOTAL	327,888	57	19	11	1	6	1
EAST SUBURBAN	Jamul	12,868	4	3	1	2	1	0
	SpringValley	79,322	8	5	4	0	5	1
	LemonGrove	29,666	4	1	0	0	0	0
	LaMesa	57,408	3	0	1	0	0	0
	ElCajon	120,824	7	0	0	1	0	1
	Santee	52,048	1	0	0	0	0	0
	Lakeside	55,209	5	3	0	0	1	0
	HarbisonCrest	14,937	2	6	0	0	1	0
	Alpine	14,528	2	1	0	1	0	0
	Ramona	33,799	0	3	0	0	0	0
	TOTAL	470,609	36	22	6	4	8	2
NORTH COUNTY WEST	SanDieguito	86,414	28	1	1	1	4	0
	Carlsbad	102,373	16	9	8	0	7	0
	Oceanside	156,874	71	9	10	1	5	2
	Pendleton	37,532	15	11	2	0	0	0
	TOTAL	383,193	130	30	21	2	16	2
NORTH COUNTY EAST	Escondido	149,724	1	25	0	2	1	1
	SanMarcos	74,089	3	0	0	1	1	0
	Vista	98,024	7	5	0	1	0	0
	ValleyCenter	19,721	0	3	0	0	0	0
	Pauma	7,269	1	6	1	0	0	0
	Fallbrook	45,360	3	8	1	2	1	1
	TOTAL	394,187	15	47	2	6	3	2
EAST COUNTY	Palomar-Julian	6,345	1	4	0	2	0	0
	Laguna-PineValley	5,345	1	1	0	0	2	0
	MountainEmpire	6,595	14	11	0	1	0	0
	Anza-BorregoSprings	3,250	2	3	2	2	0	0
	TOTAL	21,535	18	19	2	5	2	0
OTHER/UNKNOWN			1063	15	250	3	153	0
TOTAL		2,908,505	1,582	197	336	27	223	13

Source: County of San Diego. Health and Human Services, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 2001/02; Population Estimates, SANDAG

Appendix B

Table B.1: Transportation Related Injury and Death by Mechanism and San Diego County Subregional Area (Continued)

MSA	SRA	Population	Pedestrian		Other Vehicle		Overall Total
			Injury	Death	Injury	Death	
CENTRAL	CentralSanDiego	156,762	17	4	9	3	114
	Peninsula	60,731	2	4	3	0	20
	Coronado	25,877	0	0	1	0	7
	NationalCity	57,521	4	4	1	0	35
	SoutheastSanDiego	158,059	9	2	1	0	52
	Mid- City	170,026	24	5	2	0	89
	TOTAL	628,976	56	19	17	3	317
NORTH CITY	KearnyMesa	146,862	2	2	1	0	71
	Coastal	76,667	13	1	9	0	66
	University	51,865	0	1	2	0	18
	DelMar- MiraMesa	142,541	5	1	2	0	28
	NorthSanDiego	85,682	2	2	0	0	16
	Poway	84,979	1	3	0	0	12
	Miramar	6,354	0	0	0	2	4
	Elliott- Navajo	87,167	2	1	0	0	14
	TOTAL	682,117	25	11	14	2	229
SOUTH SUBURBAN	Sweetwater	90,580	0	0	1	0	15
	ChulaVista	109,532	8	4	2	1	56
	SouthBay	127,776	3	5	3	1	52
	TOTAL	327,888	11	9	6	2	123
EAST SUBURBAN	Jamul	12,868	3	0	1	0	15
	SpringValley	79,322	5	1	1	1	31
	LemonGrove	29,666	0	0	0	1	6
	LaMesa	57,408	3	1	1	0	9
	ElCajon	120,824	2	6	1	0	18
	Santee	52,048	0	0	0	0	1
	Lakeside	55,209	0	1	1	0	11
	HarbisonCrest	14,937	1	1	0	1	12
	Alpine	14,528	1	0	0	1	6
	Ramona	33,799	1	1	0	0	5
	TOTAL	470,609	16	11	5	4	114
NORTH COUNTY WEST	SanDieguito	86,414	4	1	4	0	44
	Carlsbad	102,373	2	4	4	2	52
	Oceanside	156,874	6	2	11	0	117
	Pendleton	37,532	0	1	4	1	34
	TOTAL	383,193	12	8	23	3	247
NORTH COUNTY EAST	Escondido	149,724	5	2	0	2	39
	SanMarcos	74,089	0	2	0	0	7
	Vista	98,024	2	5	1	1	22
	ValleyCenter	19,721	0	2	0	0	5
	Pauma	7,269	0	2	0	0	10
	Fallbrook	45,360	0	2	0	0	18
	TOTAL	394,187	7	15	1	3	101
EAST COUNTY	Palomar- Julian	6,345	0	0	0	0	7
	Laguna- PineValley	5,345	0	0	0	0	4
	MountainEmpire	6,595	1	0	1	1	29
	Anza-BorregoSprings	3,250	0	1	1	0	11
	TOTAL	21,535	1	1	2	1	51
OTHER/UNKNOWN			196	4	141	9	1,834
TOTAL		2,908,505	324	78	209	27	3,016

Source: County of San Diego. Health and Human Services, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 2001/02; Population Estimates, SANDAG

**Table C.1: San Diego County Population Breakdown
by Age Group, Gender and Race/Ethnicity
January 1, 2002**

		Males	Females	Total
Under 5	White	41,064	39,256	80,320
	Black	6,159	6,071	12,230
	Hispanic	36,831	38,763	75,594
	Asian/Other	15,351	14,328	29,679
5 to 9	White	42,078	39,621	81,699
	Black	7,122	6,696	13,818
	Hispanic	40,440	39,642	80,082
	Asian/Other	15,366	14,308	29,674
10 to 14	White	45,218	42,918	88,136
	Black	7,230	7,040	14,270
	Hispanic	42,723	39,758	82,481
	Asian/Other	15,311	14,299	29,610
15 to 19	White	49,476	43,294	92,770
	Black	7,260	6,111	13,371
	Hispanic	40,392	35,135	75,527
	Asian/Other	16,397	15,361	31,758
20 to 24	White	59,695	44,514	104,209
	Black	8,701	5,942	14,643
	Hispanic	47,842	37,473	85,315
	Asian/Other	17,504	16,025	33,529
25-34	White	113,267	99,211	212,478
	Black	15,039	11,492	26,531
	Hispanic	79,845	75,548	155,393
	Asian/Other	31,382	32,762	64,144
35-44	White	133,872	122,362	256,234
	Black	14,911	12,889	27,800
	Hispanic	55,865	59,234	115,099
	Asian/Other	28,663	31,703	60,366
45-54	White	122,342	120,197	242,539
	Black	9,329	8,795	18,124
	Hispanic	31,466	35,986	67,452
	Asian/Other	21,962	26,292	48,254
55-64	White	75,943	77,964	153,907
	Black	4,565	4,980	9,545
	Hispanic	14,917	19,140	34,057
	Asian/Other	11,908	14,797	26,705
65-74	White	52,568	59,403	111,971
	Black	2,660	3,086	5,746
	Hispanic	9,626	13,106	22,732
	Asian/Other	7,790	11,424	19,214
75-84	White	40,522	56,485	97,007
	Black	1,218	1,713	2,931
	Hispanic	4,783	6,935	11,718
	Asian/Other	4,092	5,549	9,641
85+	White	11,737	22,327	34,064
	Black	253	588	841
	Hispanic	1,045	2,102	3,147
	Asian/Other	825	1,325	2,150
Total		1,464,555	1,443,950	2,908,505

Source: San Diego Association of Governments (SANDAG)

Figure D.1:
San Diego County
Major Statistical Areas

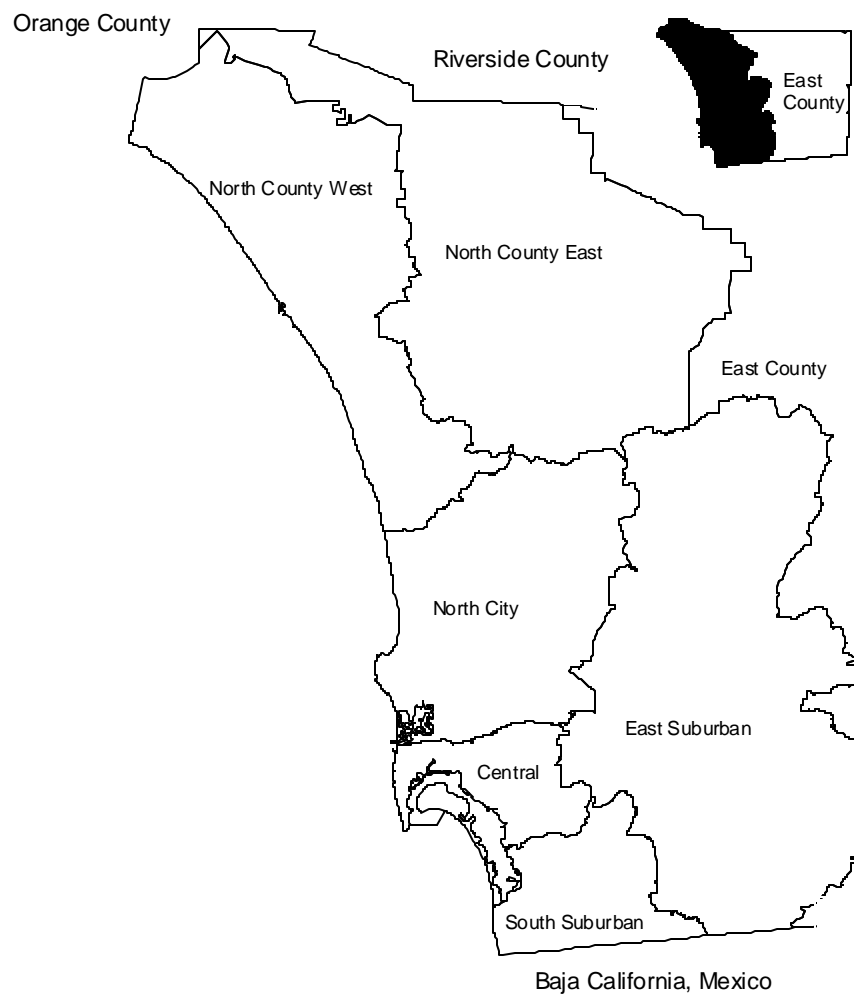
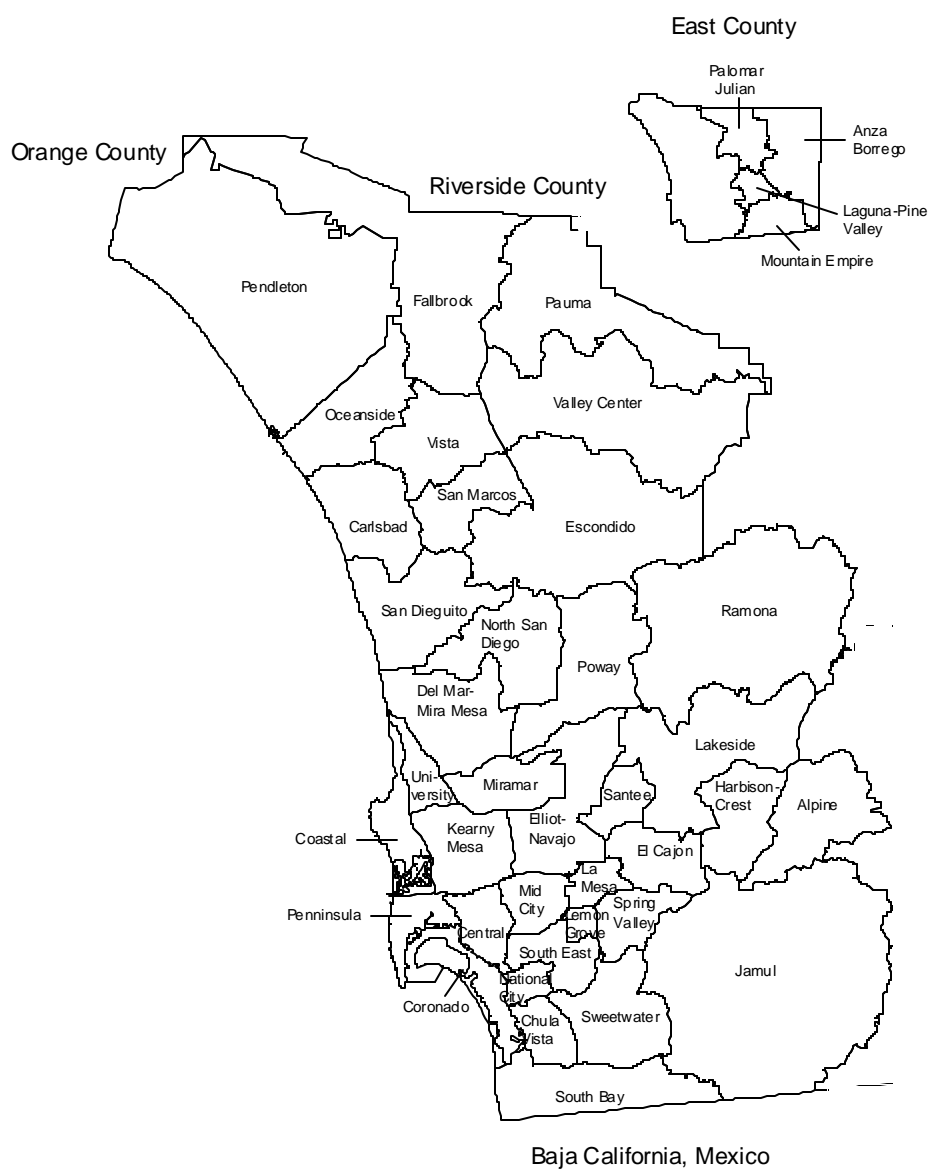


Figure D.2: San Diego County
Subregional Areas



DIRECTORY

EMS AGENCY

6255 Mission Gorge Road, San Diego, CA. 92120 - (619) 285-6429

Medical Director: Gary Vilke, MD, FACEP

EMS Coordinator: Patricia Murrin, RN, MPH

QA Specialist – Trauma: Les Gardina, RN, MSN

CHILDREN'S HOSPITAL AND HEALTH CENTER

3020 Childrens Way, San Diego, CA 92123 - (858) 576-1700

Hospital Administrator: Blair Sadler, CEO

Trauma Administrator: Irvin Kaufman, MD

Trauma Medical Director: Barry LoSasso, MD, FACS

Trauma Nurse Coordinator: Sue Cox, RN, MS

SCRIPPS MERCY HOSPITAL

4077 Fifth Avenue, San Diego, CA 92103 - (619) 294-8111

Hospital Administrator: Tom Gammieri

Associate Administrator: Leanne Hunstock, RN

Trauma Medical Director: Michael J. Sise, MD, FACS

Trauma Nurse Coordinator: Dorothy M. Kelley, MSN, RN, CEN

Base Hospital Medical Director: Steven Zahler, MD, FACEP

Base Hospital Nurse Coordinator: Monica Norris, RN.

Appendix E

PALOMAR MEDICAL CENTER

555 East Valley Parkway, Escondido, CA 92025- (760) 739-3000

Hospital Administrator: Gerald Bracht

Trauma Administrator: Kim Colonnelli, RN, MSN,

Trauma Medical Director: Tom Velky, MD, FACS

Trauma Nurse Coordinator: Beverly Neal, CCRN, BSN

Base Hospital Medical Director: Michelle Grad, MD

Base Hospital Nurse Coordinator: Shelley Berthiaume, RN

SCRIPPS MEMORIAL HOSPITAL, LA JOLLA

9888 Genesee Avenue, La Jolla, CA 92037 - (858) 457-4123

Hospital Administrator: Gary Fybel

Trauma Administrator: Cynthia Steckel, RN

Trauma Medical Director: Fred Simon, MD, FACS

Trauma Nurse Coordinator: Cheryl Wooten, RN, MSN, CNS

Base Hospital Medical Director: Lisa Morikado, MD

Base Hospital Nurse Coordinator: Mary Johnson, RN, MHA, CEN, MICN

SHARP MEMORIAL HOSPITAL

7901 Frost Street, San Diego, CA 92123 - (858) 541-3400

Hospital Administrator: Daniel Gross, RN, CEO

Trauma Administrator: Janie Taylor, RN, BSN

Trauma Medical Director: Frank Kennedy, MD, FACS

Trauma Nurse Coordinator: Kathi Ayers, RN, MSN

Base Hospital Medical Director: Mark Kramer, MD

Base Hospital Nurse Coordinator: Linda Rosenberg, RN

UNIVERSITY OF CALIFORNIA, SAN DIEGO MEDICAL CENTER

200 West Arbor Drive, San Diego, CA 92103 - (619) 543-6222

Hospital Administrator: Richard J. Liekweg, CAO

Trauma Administrator: Richard J. Liekweg, CAO

Trauma Medical Director: David Hoyt, MD, FACS

Trauma Nurse Coordinator:

Base Hospital Medical Director: Dan Davis, MD

Base Hospital Nurse Coordinator: Lana McCallum-Brown, RN, MICN

SHARP / GROSSMONT HOSPITAL

5555 Grossmont Center Drive, La Mesa, CA 91942 - (619) 465-0711

Hospital Administrator: Michele Tarbet, CEO

Base Hospital Medical Director: William Linnick, MD

Base Hospital Nurse Coordinator: Mary Meadows-Pitt, RN, BSN, MICN

SCRIPPS MEMORIAL HOSPITAL - CHULA VISTA

435 H Street, Chula Vista, CA 91910 - (619) 691-7000

Hospital Administrator: John Grah

Base Hospital Medical Director: Peter Jost, MD

Base Hospital Nurse Coordinator: Linda Broyles, RN, MSN, MICN

TRI-CITY MEDICAL CENTER

4002 Vista Way, Oceanside, CA 92056 - (760) 724-8411

Hospital Administrator: Arthur Gonzalez

Base Hospital Medical Director: Todd Zaayer, MD

Base Hospital Nurse Coordinator: Dori Vroman, RN, MICN